

## THE BULLETIN

MARCH 26, 2001 ~ 54TH YEAR ~ NUMBER 15

## U of T Aims to Increase Diversity

*But university must be more proactive, Birgeneau says*

BY JANET WONG

THE UNIVERSITY OF TORONTO will be measured, in part, by how representative its faculty is of its student body, according to President Robert Birgeneau.

Speaking at a March 21 university celebration of the International Day for Elimination of Racial Discrimination, Birgeneau said that the unparalleled diversity of the student body provides an opportunity for the university to increase the diversity of its faculty. "It provides us with a unique learning environment, unmatched by our peer institutions and it presents us with an important foundation for truly excellent education."

Birgeneau contrasted his U of T undergraduate experience 40 years ago with the university community today. In the early 1960s, he noted, the student body was much less diverse than it is now, and the faculty was even less so.

"Today's faculty in part reflects that history," he said. "Our future will be different."

Deans and department heads must first make full use of opportunity appointments, he said, drawing to U of T world-class

researchers and educators from groups that are currently under-represented. Second, search committees must be proactive.

"We can no longer choose from those who simply apply. Our commitment is to the continual improvement of process; to energetic and proactive efforts in outreach, and not to mandated outcomes," Birgeneau said. "Such proactive searches are now made much easier by new government guidelines that, in most fields, allow us to search for the best people worldwide."

He said recruitment must be guided solely by excellence. "Exceptional people will be drawn to our enterprise precisely because they will feel at home in an academic community that respects and celebrates diversity at all levels."

Birgeneau said the university has hired an employment equity consultant to advise on policy and practice for both faculty and staff. He added that the appointment of a new vice-president for human resources will have a strengthened mandate for employment equity.

Event organizer Professor

~ See DIVERSITY: Page 4 ~



*If you think this is crowded, wait until 2003...*

## Double Cohort: Still No Word on Government Funding

BY SUSAN BLOCH-NEVITTE

ONTARIO'S UNIVERSITIES ARE just 18 months away from the first wave of the double cohort but are still awaiting definitive information from the government on how the enrolment surge will be funded.

Fueled by the end of Grade 13 in 2003 as well as enrolment pressure by the echo baby boom, Ontario's universities are predicting some 58,000 additional students by the peak year of 2004-2005. The first of the students will arrive at the doors of Canada's universities in September 2003.

"We're awaiting answers to the most fundamental of planning questions," said Sheldon Levy, vice-president (government relations). "U of T, along with the other universities in the Ontario system, has agreed to increase the size of its entering class in response to projected demand, based on the provision of commensurate capital and operating funds."

"But with 2003 fast approaching and the level of operating funding still uncertain, the planning horizon required to accommodate the increase is rapidly diminishing," he warned.

U of T is anticipating an increase of more than 2,600 first-year students over its baseline 1998-1999 enrolment, with the Mississauga and

Scarborough campuses bearing the largest share of the increase. Levy said to date, allocations from the provincial SuperBuild Growth Fund have not fully supported expansion plans.

"The universities have made it clear that an increase of this magni-

tude cannot be handled on the margins and that quality educational opportunities require the support of full average funding," he said. "It's estimated that at the peak, the

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## Female Pensioners File Suit

BY SUSAN BLOCH-NEVITTE

IN THE WAKE OF A CLASS ACTION suit against the university by a group of female pensioners, U of T's vice-president (administration and human resources), Professor Michael Finlayson, says the university is as committed to principles of fairness as the plaintiffs are.

The legal action was initiated last week by four female academics who retired before the university implemented female faculty salary anomaly adjustments in 1991. The four plaintiffs are seeking to have their salaries and resulting pensions recalculated for the period they were on faculty. They are also seeking back pay on both salary and pension based on the amounts they allege they would have received had they not retired before 1991.

The group — Professors Emeriti Ursula Franklin (engineering), Phyllis Grosskurth (English), Cicely Watson (OISE) and Blanche van Ginkle (architecture) — has

launched the action on behalf of all women faculty members and librarians who retired before 1991.

"These are valued members of the U of T community," said Finlayson, "but there are other groups at the university who also believe they have been disadvantaged and we have to take a principled and fair-minded approach to all of their concerns."

Finlayson added that neither the university nor the U of T Faculty Association (UTFA), which jointly agreed to the female faculty salary adjustments, intended them to be retroactive or applicable to retired employees. "This action is unprecedented and would have significant implications for employers everywhere," he said. "Our view is that this legal action has no foundation in law."

Although UTFA is not party to the class action suit, association president Rhonda Love said UTFA recognizes the situation of inequity

~ See PENSIONERS: Page 4 ~

## Universities cost-effective

PRESIDENT ROBERT BIRGENEAU SAYS THAT A REPORT ON THE ADMINISTRATIVE efficiency at Ontario's universities is a welcome vote of confidence.

"The main message we received is that, overwhelmingly, university administration in Ontario is good value for the money," Birgeneau said.

And that, he added, has implications for how the looming double cohort enrolment expansion will be funded. "By confirming that Ontario university expenditures on administration are comparatively low and efficient, the task force reinforces the fact that there is little or no room to redirect administrative funds into academic initiatives to support coming growth."

The provincial government task force was established last September to study the administrative operations of Ontario's post-secondary institutions. Its report, *Portals and Pathways*, issued March 20, contains 33 recommendations including calls for system-wide collaboration to simplify procedures for transferring credits and applying for student aid as well as collaboration on future "e-learning" initiatives.

The Investing in Students Task Force report gives high marks to the universities and colleges for doing more with less. Compared with institutions elsewhere in Canada, Ontario universities spend among the lowest on university administration.

Universities can now return to the critical business of working with government to prepare for anticipated enrolment increases from the double cohort and baby boom echo, Birgeneau said.

"There has been a notion in the past that we would be able to handle impending demand for far less funding if we devise innovative solutions," he explained. "The task force report underscores that this kind of innovation has long since been exhausted."

The report is available online at [www.edu.gov.on.ca/task](http://www.edu.gov.on.ca/task).



## IN BRIEF



### SSHRC funds major humanities projects

TWO OF U OF T'S MOST RENOWNED HUMANITIES PROJECTS RECENTLY received major grants from the Social Sciences and Humanities Research Council of Canada. The *Dictionary of Old English (DOE)* has been awarded \$300,000 over a three-year period while *Records of Early English Drama (REED)* received \$200,000 over a two-year period. "Such strong support is crucial and it's especially wonderful to get funds from Canada as this helps us raise funds internationally," said Professor Antonette diPaolo Healey, chief editor of the *DOE*. "With this level of support we have been able to significantly increase our support to graduate student research assistants who are key to the continuing success of the REED project," added Professor Alexandra Johnston, director of REED.

### Love acclaimed UTFA president for second term

PROFESSOR RHONDA LOVE OF PUBLIC HEALTH SCIENCES HAS BEEN acclaimed president of the University of Toronto Faculty Association for a second term effective July 1. Before being elected president in 2000, Love was UTFA's vice-president (grievances) for seven years and has served as chair of its status of women committee and as a member of council, the executive committee and the salary, benefits and pensions committee and negotiating team. Love is also a former member of the Ontario Confederation of University Faculty Associations' status of women committee and is currently a member of the Canadian Association of University Teachers' academic freedom and tenure committee.

### Network outages being solved

CAMPUS INTERNET NETWORK OUTAGES OVER THE LAST TWO WEEKS were largely due to teething pains of recently installed equipment, says U of T computing and networking services (CNS). Routers on the "campus backbone" and domain name servers were being upgraded but unexpected glitches with the new equipment led to large parts of the campus losing e-mail and Web access several times, said Norman Housley, manager of network design, implementation and services. Problems have been identified and are being solved, he said. CNS, the Information Commons and the public affairs office are currently discussing ways to keep the community informed, should similar significant Internet outages occur in future.

## AWARDS & HONOURS



### Faculty of Applied Science & Engineering

PROFESSOR JAMES WALLACE OF MECHANICAL ENGINEERING has been named a fellow of the Society of Automotive Engineers for his contributions to the use of alternative fuels in internal combustion engines. Established in 1976 the grade of fellow was developed to recognize important technical achievement by members and to enhance the status of the society's contributions to the profession and the public-at-large.

PROFESSOR DOUGLAS REEVE OF CHEMICAL ENGINEERING and applied chemistry and director of the Pulp & Paper Centre was selected to receive the Purvis Memorial Award of the Society of Chemical Industry for his outstanding contributions to the science of pulp and paper. The award will be presented Feb. 21 at the 2001 awards dinner.

### Faculty of Arts & Science

CAMERON CURRIE, WHO RECEIVED HIS PHD IN 2000 from the department of botany, is one of four winners of the Natural Sciences & Engineering Council's 2001

Doctoral Prize for his discovery of a four-way relationship involving an ant, a fungus that it "cultivates" and feeds on, a second fungus that attacks the first and an antibiotic bacterium that the ant harbours to destroy the harmful fungus. Currie is now an NSERC post-doctoral researcher at the University of Texas.

PROFESSOR THOMAS ROBINSON OF PHILOSOPHY will receive an honorary doctor of letters degree from the University of Athens in recognition of "the significance and impact of his work on the community of scholars, which has bestowed credit on philosophy." He will receive the degree at an awards ceremony in Athens May 2.

### Faculty of Medicine

PROFESSORS MOIRA KAPRAL OF THE DEPARTMENT of medicine and Ron Kodama of surgery were named winners of the 1999-2000 W. T. Aikins Faculty Teaching Award in the Individual Teaching Performance category. Established in 1984 and named after the first dean of the Faculty of Medicine, the Aikins Awards are the faculty's most prestigious awards for commitment to and excellence in undergraduate medical education.

## U of T Wins Three Killams

THREE OF U OF T TOP SCHOLARS will now be able to concentrate full-time on their research and writing for up to two years as winners of this year's Killam fellowships, one of Canada's most distinguished research awards.

Professors Timothy Barnes of classics, Heather Jackson of English and Thomas Tidwell of chemistry at Scarborough are among the 17 recipients of the fellowship, awarded annually by the Canada Council to support scientists and scholars engaged in research projects of outstanding merit in the humanities, social sciences, natural sciences, health

sciences, engineering and interdisciplinary studies within these fields.

In his project, *Emperors and Legislation in the Late Roman Empire (284-476)*, Barnes will first establish a secure chronology for the imperial laws preserved in the Theodosian Code and the Codex Justinianus, then use this chronology to produce a partially new picture of how the Roman Empire developed after Constantine's conversion to Christianity. Jackson, whose general survey of marginalia has just recently been published, will write an account of readers' notes written in Britain between 1780 and 1830 when massive

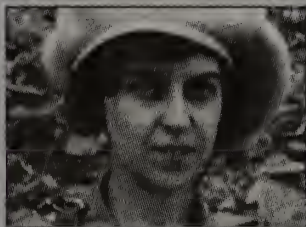
expansion of the publishing business coincided with the first publication of such writings. Tidwell will use his grant to investigate the generation, properties and application of a series of highly reactive organic chemical intermediates using laser flash photolysis with fast infrared and ultraviolet detection.

Professors Pierre Milman of mathematics and Stephen Waddams of the Faculty of Law have had their fellowships renewed for a second year. Milman will continue his work on the mathematics of singularities, while Waddams will carry on his investigation of private law.

## ON THE INTERNET

### FEATURED SITE

#### Science under the microscope



BEYOND THE MICROSCOPE: Stories of Science is a virtual museum exhibition highlighting the history of scientific education and research at U of T. The Web pages are divided into four sub-themes: practice of science, practice of

exclusion (of women and people of lower socioeconomic status), art and design in science and pop science. Madeleine Alberta Fritz, Edith Mae Curzon and Clara Cynthia Benson are among the many women whose contributions to science are celebrated in the biographies section of the site. Beyond the Microscope: Stories of Science is also on display at Robarts Library (second floor) until April 6. Some of the scientific instruments used at University College between 1860 and 1918 are also featured.

<http://www.utoronto.ca/museum/exhibition/>

### U OF T HOME PAGE

[www.utoronto.ca](http://www.utoronto.ca)

### STAFF DEVELOPMENT COURSE GUIDE

[www.utoronto.ca/hrhome/guide/](http://www.utoronto.ca/hrhome/guide/)

### RESEARCH UPDATES (NOTICES)

[www.rir.utoronto.ca](http://www.rir.utoronto.ca)

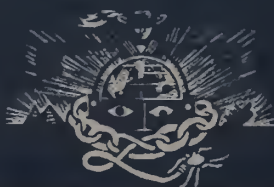
### PHD ORALS

[www.sgs.utoronto.ca/phd\\_orals.htm](http://www.sgs.utoronto.ca/phd_orals.htm)

### U OF T JOB OPPORTUNITIES

[www.utoronto.ca/jobopps](http://www.utoronto.ca/jobopps)

If you want your site featured in this space, please contact Audrey Fong, news services officer, at: [audrey.fong@utoronto.ca](mailto:audrey.fong@utoronto.ca)



### SITES OF INTEREST

#### Managing citations

COLLECTING AND ORGANIZING CITATIONS WHILE WRITING A research paper or thesis is never an easy task. The staff at the Gerstein Science Information Centre have therefore launched this popular Web page to explain the benefits of citation management or personal bibliographic software (PBS). This online resource describes bibliographic management software used by academics to organize and manipulate citations for written articles. There is also a multitude of links to various PBS tutorials, listservs and reviews and comparative articles.

<http://www.library.utoronto.ca/gerstein/personalbib.htm>

#### Mining a well of fame

DID YOU KNOW OUT OF THE 98 CANADIAN MINING HALL OF Fame inductees, 21 one of them are U of T grads? There are two hall sites: the Mining Building on the St. George campus and the northern Ontario mining town of Elliot Lake. Be sure to read Herbert Haultain's biography, the esteemed U of T mineral engineering professor who developed the Ritual of the Calling of an Engineer, known to all graduating Canadian engineers.

<http://www.halloffame.mining.ca>



# Hospitals, U of T Harmonize Research Policies

BY STEVEN DE SOUSA

THE UNIVERSITY OF TORONTO has reached an agreement with its teaching hospitals that will harmonize research policies and enforce tougher ethical guidelines and public accountability in research.

The agreement frames working groups to develop and implement more consistent guidelines with higher standards for the ethical use of human and animal subjects in research, addresses real and potential conflicts of interest and outlines new rules regarding the publication of research findings.

"U of T's Faculty of Medicine is the first medical school in Canada to establish such a comprehensive and mutually supportive arrangement with its research partners in the teaching hospitals," said Professor David Naylor, dean of the Faculty of Medicine and vice-provost (relations with health care institutions). "This is a big step forward for medical research in this country and we expect that others will follow suit."

The agreement builds on recent recommendations by the three federal granting councils (Canadian Institutes of Health Research, Natural Sciences and Engineering Research Council, Social Sciences and Humanities Research Council) to enhance the ethical environment for reviewing research studies in Canada. "There has also been a worldwide thrust to deal with what has become an increasingly complex research environment as proprietary interests sponsor clinical and basic research studies," Naylor said. "Addressing these potential conflicts of interest has become a very high priority globally."

Under the new policy, the university and its eight affiliated hospitals that make up the Toronto Academic Health Sciences Council agree that peer review is the

cornerstone of excellence in research and that scientists should have the right to disseminate the results of their findings. To this end, no agreements will be negotiated that allow research sponsors to suppress or censor research results.

"If we're going to maintain our standards and reputation as international leaders in medical research, then it is vital to work together in terms of the quality of our work and the quality of the review that is carried out," said Dr. David McCutcheon, president and chief executive officer of Sunnybrook and Women's College Health Sciences Centre and chair of the Toronto Academic Health Sciences Council. "This consistency in excellence helps us attract and retain high quality researchers doing high quality research."

The university and hospitals have agreed to adopt policies and procedures consistent with the granting councils' policy statement on ethical conduct for research involving humans and to clarify the respective mandates of university and hospital ethics boards. They will also create a working group on research involving human subjects and establish common standards for the ethical review of all research projects in clinical settings.

"We're making major progress here," Naylor said. "We're getting a consensus across the multiple institutions and we're establishing the mechanisms to continue to upgrade the environment for ethical conduct of research."

The Toronto Academic Health Sciences Complex is comprised of the University of Toronto, Sunnybrook and Women's College Health Sciences Centre, the Hospital for Sick Children, Mount Sinai Hospital, University Health Network, St. Michael's Hospital, Centre for Addiction and Mental Health, Baycrest Centre for Geriatric Care and Toronto Rehabilitation Institute.

## DINING ALFRESCO



Students Rodrigo Vasquez and Laura Horovitz indulge in a time-honoured tradition — eating outdoors at the first sign of spring.

STEVE BEHAL

## NAFTA a Threat to Public Universities?

BY JUDY NOORDERMEER

SOME CANADIAN UNIVERSITY teachers are raising the alarm over Alberta's recent decision to allow U.S.-based DeVry Institute of Technology to grant bachelor's degrees in the province. And they say the North American Free Trade Agreement (NAFTA) may require the government to provide public funding to the private institution.

The warning comes from the Canadian Association of University Teachers (CAUT). The group argues that the Alberta precedent might open the floodgates to NAFTA challenges in all provinces.

"DeVry could and now has the right to take Alberta to court, to a NAFTA tribunal, to argue that public subsidies [to public universities] through core operating grants are unfair and restrictive trade practices," said David Robinson, CAUT associate executive director. "It's not beyond the realm of possibility."

DeVry is Canada's first for-profit degree-granting institution. The

Ontario government passed legislation in December that would allow private degree-granting institutions to operate in the province, although it has yet to authorize one.

Dave Ross, spokesperson for the Ministry of Training, Colleges and

capital [grants], without having to provide the same to private universities." The government would argue against any challenges, he added.

But Robinson said that too much remains unknown. "The scary part is that I'm not aware of either the Canadian government, the government of Alberta or the government of Ontario doing a serious analysis and getting a serious legal opinion on the implications of making these policy decisions. We do know that once you allow a commercial presence into what was a public system, you do trigger all kinds of clauses and you lose all kinds of protections that were built into NAFTA."

Sheldon Levy, U of T vice-president (government and institutional relations), agrees the issue of whether a NAFTA challenge would have teeth is unclear. He added, "I have fundamentally major problems with private, for-profit degree-granting institutions in Canada because I think they are being subsidized by the public and I think that is absolutely wrong."

THE ALBERTA  
PRECEDENT MIGHT  
OPEN THE FLOODGATES  
TO NAFTA  
CHALLENGES

Universities, said NAFTA challenges are not a concern for the Ontario government, however. "The opinion of the government is that Canada and all the governments are able to provide support to public universities, such as operating and

## Med Students Pressured to Act Unethically

BY MEGAN EASTON

AN INTERNATIONAL JOURNAL article about unethical practices in clinical teaching at the Faculty of Medicine has focused attention on a universal problem in medical education that U of T faculty and students are working to solve.

The article in the March 24 issue of the *British Medical Journal* described a survey taken in the 1997-1998 academic year of 108 U of T medical students who were about one year away from graduating. Almost half of the students said they had been placed in a clinical situation where they felt pressure to act unethically and about 60

per cent reported that they had observed a clinical teacher acting unethically. Examples of such behaviour range from clinical staff discussing patients' names and medical conditions with students in public places to students being asked to perform procedures without supervision. At the time of the survey the study authors were undergraduate medical students at U of T and the University of Western Ontario.

"The Faculty of Medicine is well aware of the concerns described in this article," said Professor Rick Frecker, associate dean of undergraduate medical education. "In fact I had spoken to the authors when they first raised their

concerns. The faculty took them very seriously and these conversations led to several initiatives to address the problem." The faculty has enhanced the medical ethics curriculum, ensured students know their right to refuse unethical actions and encouraged them to report any unethical behaviour by clinical staff. There are also expanded educational programs for faculty about ethics in clinical teaching settings.

David Robertson, a fourth-year medical student at U of T and one of the article's authors, said Frecker and other faculty members were immediately receptive to his request to address the students' dilemma. "They were very open to

the idea and we had no sense of them wanting to bury the issue," he said. Two faculty members, Professor Peter Singer and Professor Philip Hébert, acted as advisers for the article. "We're trying to do something constructive and I think it's something that both faculty and students have in their sights," Robertson said.

Frecker said he has never received a formal complaint about unethical teaching situations but he recognizes that it is an ongoing challenge for all medical schools. "I am not suggesting that the problem has been eradicated by the initiatives we've undertaken but I would expect that it has improved and we're fully prepared

to continue our efforts to eliminate the problem completely through education and appropriate disciplinary actions in response to formal complaints."

Unethical clinical behaviour is not unique to U of T's Faculty of Medicine, said Robertson, and the article may play a role in stimulating debate at medical schools everywhere. "This is a small part of changing the culture so that these things become less and less common," he said. "That culture is evolving towards a stronger focus on patients rights. The old-fashioned style of teaching medicine is on its way out and we're hoping that we're helping that extinction."



# Hart House Happenings

7 Hart House Circle • www.utoronto.ca/harthouse

## SPECIAL EVENTS Call 416 978-2452

**Formal Debate** featuring Nobel Prize Winner, Dr. John Polanyi, Tue. Mar. 27 at 7:30pm in the Debates Room. Resolution: "Be It Resolved that National Missile Defence Means a Safer World". Call 416 978-0537 for more information.

## THE INAUGURAL HART HOUSE LECTURE

Thurs. Apr. 5 - The Great Hall

**PICO IYER: IMAGINING CANADA: An Outsider's Hope for a Global Future**  
FREE BY RESERVATION. Tickets available at the Hall Porters' Desk  
www.utoronto.ca/harthouse/lectures

**2001 Murder Mystery Evening** - The Graduate Committee and the Drama Society present, *Who Killed Elvis Presley?* Fri. Apr. 27. Reception 7 p.m. Buffet dinner, 8 p.m. In the Great Hall. Before Mar. 16: \$32 for senior members and \$24 for students. Contact Membership Services Office at 416 978-2447 for tickets and information.

## ART Call 416 978-8398

**The Justina M. Bornicke Gallery** - Hart House Camera Competition and 79th Annual Exhibition of Photographs. Runs to Apr. 5.

## LIBRARY Call 416 978-5362

**Writuols 7** - The Literary Pub and Open Stage - This term's finale! Readings from Chris Jennings, Sophie Levy and Souvonkhom Thammavongso, Wed. Mar. 28 at 8:30pm in the Arbor Room. Come out and read! Licensed. No cover.

## MUSIC Call 416 978-2452 - All concerts are FREE!

**Spring Recitals** - Flutist, Leoh Eddy performs on Tue. Mar. 27 at 8pm in the Music Room and trumpeters, Eve Erocleous and Ryon Baker perform on Tue. Apr. 3 at 8pm in the Music Room. All welcome.

**From the Hart** presents Open Stage with host, Phillomene Hoffman, Thurs. Mar. 29 at 8pm in the Arbor Room. Sign up at 7:30pm. Come out and play! Come out and sing! Licensed. No cover. Call 416 978-5362 for more information.

**Jazz at Oscars** - The Hart House Jazz Ensemble, Fri. Mar. 30 at 8:30pm in the Arbor Room. Licensed. No cover.

**Midday Mosaics** - Lynn Kuo, violin, Rafael Hoekman, cello, Gregory Williams, clarinet, and Rochelle Risling, piano, perform Messiaen's "Quatuor pour la Fin du Temps", Thurs. Apr. 5 at 12noon in the Music Room. All welcome.

## CLUBS & COMMITTEES - Call 416 978-2452

**Chamber Strings Ensemble** Concert under conductor, Fabio Mostrangelo, Mon. Apr. 2 at 8pm in the Great Hall. Reception following. All welcome.  
**Chorus' Spring Concert** - Sun. Apr. 8 at 3pm in the Great Hall. Call 416 978-6315 for more information.

**Hart House Jazz Ensemble and Choir** - End of the year concert, Sat. Mar. 31 at 8:30pm in the Great Hall. Call 416 978-6315 for details.

**Orchestra's Spring Concert** conducted by Dr. Errol Goy and Associate Conductor, Ann Cooper Goy, Thurs. Mar. 29 at 8pm in the Great Hall.

**Singers' Concert** - Sun. Apr. 1 at 3pm in the Great Hall. Call 416 978-6315 for details.

**Symphonic Bond** - conducted by Keith Reid presents its Spring Concert, Sat., March 31 at 8pm in the Great Hall. Refreshments following. Call 416 978-5363 for more information.

## ATHLETICS - CALL 416 978-2447

**HART HOUSE**

UNIVERSITY OF TORONTO

# Diversity to Be Increased

~ Continued From Page 1 ~

Chandrakant Shah of the department of public health sciences said the forum was necessary because the university has had to battle negative publicity with respect to race relations recently.

"I thought that we needed to showcase some of the good things that are happening here," Shah explained. "Second, we have a new

president and there are a lot of expectations within the university and outside the university for knowing what he's going to do. I thought this would be a good forum for him to unveil his plan."

Keynote speaker Roy McMurtry, chief justice of Ontario, spoke about charting future directions in diversity in Canadian society, while educator and community activist Zanana

Akande criticized the university's progress as reactive and sporadic.

Birgeneau cited recent U of T employment equity figures, demonstrating progress over the last three years. Nearly 50 per cent of new hires in the Faculty of Applied Science and Engineering are visible minorities, 21 per cent in the Faculty of Arts and Science and 19 per cent in medicine.

# Pensioners File Suit

~ Continued From Page 1 ~

for the women who retired without the benefit of the salary adjustment. "This is one of the reasons why we have a proposal on the table to improve pensions for groups of retirees who have been excessively disadvantaged. We believe that many of the women retirees would likely have

had an increase in salaries had they been part of the [1991] salary review, and therefore better pensions today."

Finlayson said the issue of pension improvements for retirees is a part of the confidential negotiations with UTFA, which represents pensioners as well as active faculty members and librarians. "Whatever agreement is

reached will assume that the university's pension plan is gender blind and status neutral," he said. "We want to treat everyone fairly."

According to Finlayson, retired faculty members have received significant increases to their pensions over the past 15 years to fully compensate for the impact of inflation.

# No Word on Funding

~ Continued From Page 1 ~


overall increase including flow-through to all years will require an additional \$500 million — or approximately a 25 per cent increase in the operating grant for Ontario universities."

The GTA universities — U of T, York and Ryerson — are expected to take the biggest hit from increased demand, with more than a third of the new students likely to seek placements in these institutions.

Increasingly, parents and secondary school officials are asking questions as 2003 looms. Levy attended a recent high school double cohort information session where questions probed everything from institutional preparedness and changes to admissions standards to the availability of financial aid and residence space.

Ontario universities have been working with government since early 1999 to analyse demand, identify

capacity and develop funding approaches, he said. There is therefore reason to be "cautiously optimistic" that a workable funding solution will be found. "To this point, government and the universities have been working together effectively to address the issues and problems," Levy said. "The prevailing mood continues to be one of reasonable confidence that double cohort solutions will be developed in a timely way to ensure quality access to post-secondary opportunities."




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# MINDING THE CHILDREN

*A professor finds his vocation researching child welfare in Canada*

BY MEGAN EASTON

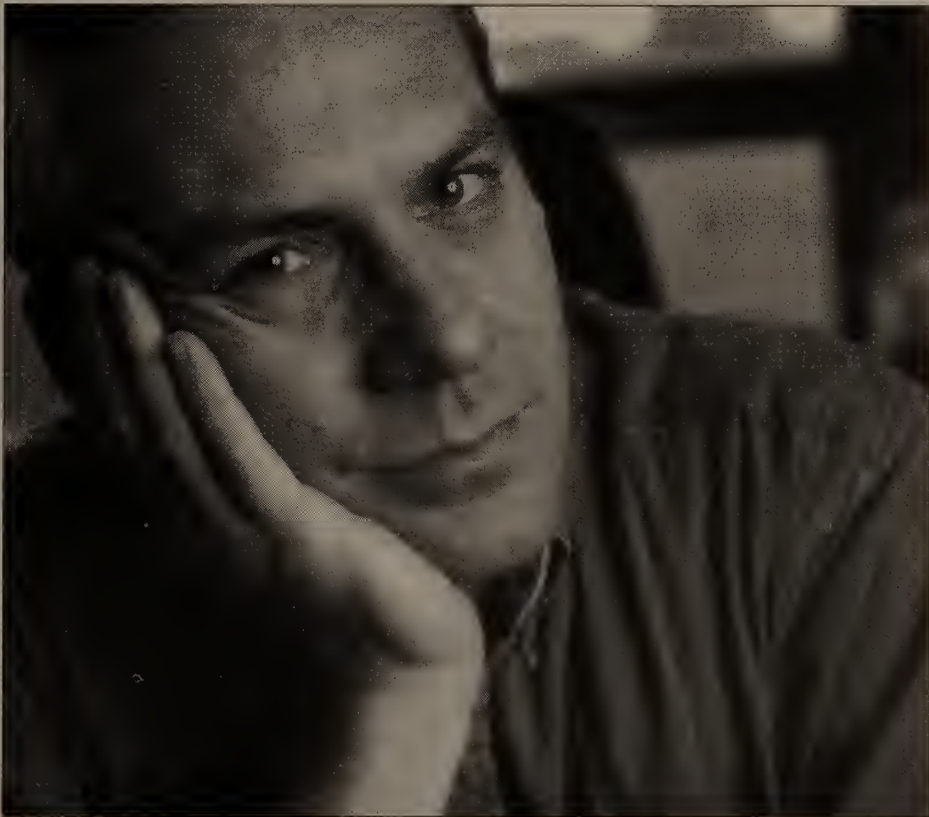
PROFESSOR NICO TROCMÉ WAS an undergraduate student at Trinity College absorbed in the existential musings of a philosophy major when a summer job at a camp for inner-city kids made the search for the meaning of life seem suddenly unimportant.

It was Trocmé's first encounter with disadvantaged children and instead of being depressed by the experience he says he found it exhilarating. Finally all his theoretical knowledge of social good and morality found an outlet in the real world. "When you're working with these kids and these families you get an incredible sense of hope," says Trocmé. "You never question the meaningfulness of what you're doing."

The camp experience inspired him to go back to U of T for a master's in social work, followed by five years at the Children's Aid Society of Toronto. Though he loved working in the field he found he was drawn to any opportunity to do research in child welfare and ultimately returned to U of T again for a PhD in social work. "It's an old-fashioned word," he says, "but I would certainly describe it for myself as a vocation." Now, almost 20 years after his summer camp epiphany, Trocmé is the director of the Centre of Excellence for Child Welfare at the Faculty of Social Work and the lead author of the first national study on child maltreatment investigations.

The Canadian Incidence Study of Reported Child Abuse and Neglect, released this month, represents the first step in the development of a national surveillance system for child abuse. Since beginning his research in the early 1990s Trocmé, also the Margaret and Wallace McCain Family Chair in Child and Family at U of T, has been trying to gather fundamental information about how the child welfare system operates, who it serves and how successful it is. Until now, child welfare agencies in Canada have either operated without any reference data or relied on American statistics.

In addition to providing a much-needed framework for policy and future research, Trocmé says he hopes the study,



Professor Nico Trocmé

funded by Health Canada and U of T's Bell Canada Child Welfare Research Unit, will help move the system away from an emphasis on protection from harm to a larger emphasis on children's overall well-being.

By a fluke of timing a case involving the death of an infant receiving child welfare services dominated the media during the week of the study's release, highlighting the public's recent preoccupation with individual cases of extreme physical abuse. "We've moved towards an approach where the greatest fear is a child dying as a result of not being removed, of being left at home. Those are very rare, literally like trying to find a needle in a haystack," he says.

In fact, of the estimated 135,500 child maltreatment investigations the study identified for the sample year 1998, almost 60 per cent of the cases involved neglect and emotional maltreatment while about 30 per cent involved physical abuse and 10 per cent involved sexual abuse. Injuries requiring medical

treatment occurred in just four per cent of confirmed cases of physical abuse. Yet, in part because of public pressure, the number of children in foster care is growing rapidly, Trocmé says. He compares the current system to primitive battlefield medicine where the only choices were amputation or letting a wound fester. "To a certain extent that's where we're at in the 21st century in child welfare. We don't have a lot of the tools needed to do anything other than remove kids from dangerous situations."

Finding ways to measure the effectiveness of current child welfare services is another major focus of Trocmé's research. The Client Outcomes in Child Welfare Initiative is aimed at designing a national method to track the progress of children and families, for example, their school achievement and poverty levels, after they come in contact with child welfare agencies. He and his research team are also in the process of creating a child abuse self-report tool and an intervention program for parents who neglect their children. Like the national incidence study, he says this research is meant to provide evidence that will expand the focus in child welfare from safety to a broad spectrum of support

programs and alternative healing strategies inside and outside the home that will enhance children's lives.

"We tend as a society to get caught up in the horror of the individual circumstances of these kids and I don't think we see them as full citizens with the potential that they have." He says he first learned this lesson back at the summer camp, where simply reaching out to kids with a game or a reading lesson could mean so much. "The flip side to their tragic circumstances is that these are kids who really respond very positively to positive attention," he says.

Though he is firmly entrenched in his role as an information gatherer, Trocmé says he still feels a strong affinity for the day-to-day work of helping abused and neglected children. He describes his research as applied in the strongest sense of the word — a long way from the abstract theorizing of his undergraduate days, but much closer to realizing the concept of social good he only contemplated before.

ROB ALLEN

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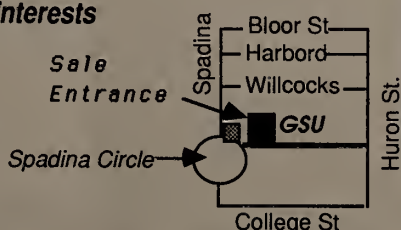
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## Lynch Devoted to St. Mike's, U of T

PROFESSOR EMERITUS LAWRENCE Lynch, the first lay principal of St. Michael's College, died Feb. 15. He was 85 years old.

Lynch was born in Toronto and attended the Separate Schools of Toronto and St. Michael's College School before entering St. Michael's College in 1932, the beginning of his long and fruitful association with the college. A gifted student, by the time he was 25 he earned his BA, MA and PhD as well as a licentiate in Medieval studies from the Pontifical Institute of Mediaeval Studies. After joining the faculty when he completed his PhD in 1940, Lynch's academic career was interrupted when he served with U.S. Naval Intelligence in the Far East during the Second World War. He returned to St. Michael's in 1946 where, along with Professor Marshall McLuhan, he was one of the few lay undergraduate instructors.

An active member of the university community, Lynch held numerous elected and appointed positions on the university's governing bodies, councils and committees throughout his career, perhaps most notably as co-chair of the ground-breaking Commission on University Government (1968-1969), whose report led to the establishment of Governing

Council. Among his other commitments he was a member of the Senate for 12 years, served on the President's Council from 1966 to 1969 and was a member of the Hart House House Committee for 18 years, including six as its chair.



Lynch was chair of the philosophy department at St. Michael's from 1960 to 1975 and was appointed principal of the college in 1976, becoming its first lay principal when the functions of principal and president were separated. As principal, a position he held until 1981, he was responsible for the undergraduate component of the college, including instruction and student affairs.

"We had not had a principal

before," Professor David Dooley commented in addressing the Senate of St. Michael's at the end of Lynch's term, "so that he had to create the job as well as occupy it." Lynch, he added, had set a "very high standard for his successors to meet." In recognition of his contributions and his involvement in public service Lynch received a doctor of sacred letters from St. Michael's in 1987.

"Professor Lynch was widely respected as a Catholic philosopher and was much admired for his gracious manner and good sense, both at St. Michael's and within the wider University of Toronto community," said Professor Joseph Boyle, current principal of the college. "He will be greatly missed by all who knew him here, and especially by this office."

Father Robert Madden, a former student, close colleague and friend, eulogized Lynch, speaking of the "immense" debt owed by so many: "Our appreciation of and gratitude for his many contributions to our histories and to the preservation and enhancement of our traditions ... cannot be adequately expressed. So often his example and leadership reminded us of what we were founded to be and do."

## Pico Iyer Gives First Hart House Lecture

BY JUDY NOORDERMEER

"AN ELEVATED AMERICA, A Liberated Europe."

Thus is Canada described by world-wandering author and journalist Pico Iyer who will be expanding his vision of the nation's role in the global community in the inaugural Hart House Lecture April 5.

In his talk, *A Beacon for the Global Future: An Outsider's Hope for Canada*, Iyer will argue that multicultural Canada may well be the world's "best guide to the creation of a new kind of stained-glass society."

Distinguished lecturers are not unusual at U of T; what makes this one different is the level of student involvement in the conception and substance of the lecture itself. Co-ordinating the event is Peter MacLeod, a fourth-year Victoria College student. He says the vision for the series is to identify "original thinkers flying just below the media radar who can talk about Canada in the 21st century." It's also designed to spark debate,

added co-co-ordinator Mike Morgan, a fourth-year international relations and history student. "People will leave feeling challenged."

MacLeod and Morgan worked with Iyer to develop the concept for the inaugural lecture — making suggestions on Canadian fiction and non-fiction books he could consult and offering feedback on an early version of the text. The talk will touch on works by 25 writers including Michael Ondaatje and Anne Michaels.

Born in Oxford to Indian parents, Iyer has lived and traveled around the world. A frequent contributor to *Time*, *Sports Illustrated*,

*Harper's* and the *Times of London*, Iyer is also well known for his novels which include *Video Night in K a t m a n d u* (1988) and *The Global Soul: Jet*

*Lag, Shopping Malls, and the Search for Home* (2000).

Tickets for the free lecture are available at the porter's desk at Hart House or at [www.utoronto.ca/harthouse/lectures](http://www.utoronto.ca/harthouse/lectures). Iyer's talk will begin at 8 p.m.

### CANADA SEEN AS BEACON FOR GLOBAL FUTURE

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## INVITATION TO A READING

by

**Austin Clarke**

Jack McClelland  
Writer-in-Residence 2001

on

**Thursday 5 April 2001**

**4:15 p.m.**

Massey College  
Upper Library

Reception hosted by the  
Department of English to follow in  
Massey College Common Room

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# THAT CHAMPIONSHIP SEASON

*Blues women cap stellar play with CIAU crown*

By JOAN GRIFFIN

SHE SWOOPED IN ON THE OPPONENT'S end of the Olympic Oval in Calgary, determined to score. Dumping the puck into the boards she circled back to receive a pass from line mate Jill Savin. She knew where she wanted to put it, where it had to go — the upper right corner. It wasn't the most beautiful goal ever scored, but it did the trick. The skater's determined demeanor and the blonde hair sticking out from under the helmet made her immediately identifiable as Varsity Blues captain Jen Rawson.

Rawson was on a mission. She wanted to win a CIAU women's ice hockey championship title. Everything was going exactly to plan, which was good because she'd already sacrificed so much to be here: putting her life on hold for another year to play hockey, study and teach part-time. "I knew that I could work forever but I only had a few years of hockey left," says the part-time Markham District High School teacher. Indeed, this was her last chance for a CIAU crown; she'd reached the end of her five years of eligibility and couldn't keep taking courses just to play hockey.

The memory of last year's championship — the one that should have been her last, the one where the number one ranked Varsity Blues finished fourth, missing the medal podium for the first time in history — was still bitter.

But 2001 was going to be different. "We knew that the team was really good going into the season but I don't think anyone knew we'd go unbeaten in 35 games," says Rawson of the team's best-ever season. She could claim a substantial part of their success, implementing the strong tactical game designed by U of T head coach Karen Hughes and assistant coach Dan Church. The plan suited Rawson's style perfectly.

"Jen is a great player," says Hughes, "because she's so consistent. She is exactly the same whether it's practice or play-offs. That kind of



Players Suzie Laska and Bree Krukli flank Blues coach Karen Hughes.

commitment is good for us to build on."

And build on it they did. As captain, Rawson was expected to guide and provide leadership to her 20-something teammates, a tall order for a 25-year-old. But their praise and respect for this women is glowing.

"I've learned so much from her," says second-year player Bree Krukli. "She's a great skater, passer, shooter and teacher." Over the past two seasons Krukli, who is centre for the Blues' third line, has had many opportunities to observe and learn from

Rawson on and off the ice. A competitive player with a deft scoring touch, Krukli is an inspiration to her teammates for entirely different reasons.

During a game in early October, she was checked from behind by a University of Guelph player, the impact collapsed her lung. "The pain was unbelievable," Krukli recalls. "I couldn't breathe. I couldn't stop crying, I just couldn't believe that I was hurt again." Krukli had spent much of the previous season recovering from a broken leg sustained

in a game against Queen's. But she was undeterred and kept going to practice, watching and waiting until she could play again.

That determination was critical on Feb. 25, the day that would determine the winners of the CIAU crown. Their three-goal lead was rapidly disappearing. They were taking bad, some would argue unearned, penalties. In an emotion-choked scene worthy of the Gipper, Rawson challenged her teammates to win.

"Jen came into the dressing room and said 'Come on girls. This is my last game as a Varsity Blue. I came here to win a championship and I'm not leaving this building without that medal, you can come with me if you want.' I remember it so clearly. Everyone was so emotional," says Suzie Laska. Laska, a third-year defensive player, had been instrumental in the Blues win the previous night over the McGill Martlets, the team that crushed the Blues' dreams one year ago.

"Deep down we all knew that we could win no matter what the scoreboard showed," Laska says. "I asked myself, Where else would you rather be Suzie? And I had to say, Nowhere. I wanted to be right there and I wanted to win. That's when I knew we were really going to do it."

But it would take a tension-filled third period to clinch it for the Blues. Rawson, Krukli and Laska were all on the bench in the dying minutes of the game. They sat, and then stood, marking the seconds as they watched the clock click down to zero. The final score: 4-3 over the Regina Cougars. It was a storybook ending to an unbelievable season.

Winning the championship was a galvanizing experience for this group of women who already personified the meaning of team work. Now that their season is over and some have 'retired' they still get together at least two nights a week, playing shinny on the ice at Varsity Arena. It's a ritual they will continue until the ice is taken up for exams.

SUSAN KING



## Council Election 2001

Nominations are now Open

### What does SGS Council do?

SGS Council is primarily responsible for establishing policies and procedures concerning the administration and quality of graduate studies at the University of Toronto.

### SGS Council considers:

- changes in SGS policy
- new degree proposals
- new program proposals
- changes in admission requirements
- changes in program regulations
- fellowships and awards policy
- reports of ad hoc committees
- review reports of SGS centres/institutes
- other matters as appropriate

### Nomination forms are available from:

School of Graduate Studies  
Graduate departments  
Graduate centres/institutes  
Graduate Students' Union

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  - 1 the Physical Sciences
  - 1 the Life Sciences
- 9 GRADUATE STUDENTS** in four divisions as follows:
  - 2 the Humanities
  - 2 the Social Sciences
  - 2 the Physical Sciences
  - 3 the Life Sciences
- 3 Members of the ADMINISTRATIVE STAFF** as follows:
  - 2 members from any graduate unit
  - 1 member of the School of Graduate Studies

### Eligibility:

Candidates must be continuing members of the graduate faculty or registered graduate students in the division in which they have been nominated. Administrative candidates must be continuing or sessional members of the University administrative staff.

### Terms of office:

Terms begin July 1, 2001. Faculty terms are normally for three years. Student and staff terms are for one or two years.

For more information contact:

Edith Fraser/Luke Sneyd, School of Graduate Studies, 65 St. George Street 416 -978-5986/978-2295

**Nominations Close at 5:00 p.m. April 2nd, 2001**

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Professor Ephraim Isaac, *Professor of Religion and African American Studies & Fellow of Butler College, Princeton University; Director, Institute of Semitic Studies, Princeton, New Jersey.*

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LECTURE LOCATION: ROOM 1069, SIDNEY SMITH HALL, 100 ST. GEORGE STREET, UNIVERSITY OF TORONTO

### The Bulletin

invites readers to submit information regarding awards and honours as well as death notices of staff and faculty. Please include as much background information as possible and in the case of obituaries, a CV is especially welcome.

Please send, deliver or fax the information to:

JILL RUTHERFORD, EDITOR

fax: (416) 978-7430. E-mail: jill.rutherford@utoronto.ca



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## imagining canada:

AN OUTSIDER'S HOPE FOR A GLOBAL FUTURE

As the rest of the world joins the global village, Canada has embarked, with its finest writers as stewards, on a new course towards what author Pico Iyer describes as the 'space between' the old world and the new.



Date: Thursday, April 5<sup>th</sup> 2001, 8pm  
Location: The Great Hall, Hart House  
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## Grant Gift Marks "New Era" in Funding

BY JAMIE HARRISON

THE CRITICAL NEED FOR Canadian companies to see beyond their own borders is a key component in the creation of a new endowed chair in competitiveness and prosperity at the Joseph L. Rotman School of Management. Made possible by a gift from Douglas and Ruth Grant, the chair will be located at the Centre for Global Competitiveness at the Rotman School. The annual income generated by this gift will be supplemented by funds from the Canada Research Chairs (CRC) program which will support a senior scholar.

The chair marks a new era in funding at the university, said President Robert Birgeneau. "This donation from the Grants and funding through the government of Canada's inspired CRC program is proof-positive of how the private and public sectors can together play a leading role in retaining the country's best academic brains," he said. "The work of the chair holder

will also have a far-reaching impact, contributing to the overall competitiveness of the Canadian economy and helping to enhance our international standing amongst our trading partners."

The chair will develop strategies to enhance the competitiveness of both regions and nations. The chair holder will be an international scholar in competitiveness issues and will study transitions and trends in the nature of competition and the process of globalization. The chair will also conduct research on competitiveness policy in Canada's public and private sectors.

"There is a strong sense throughout the nation that Canada is at a crossroads," said Roger Martin, dean of the Rotman School. "Just as corporations cannot be expected to win without a defined strategy, Canada will not win in the global economy unless we pursue innovation and upgrade our productivity. This gift will play an important role in improving Canada's chance for long-term prosperity."

## UNIVERSITY OF TORONTO the campaign 1995-2004

## \$3M Raised for Pharmacy Building

ABOUT 600 SHOPPERS DRUG Mart executives, pharmacist owners and suppliers have contributed nearly \$3 million towards a new pharmacy laboratory in honour of the company's retired president.

The Herbert R. Binder/Shoppers Drug Mart Pharmacy Practice Laboratory will be an integral part of U of T's Leslie L. Dan Pharmacy Building, scheduled for completion in 2004. The state-of-the-art laboratory will provide students with a learning environment to develop patient-focused skills and will include interview rooms with video capabilities. The practice lab will also provide compounding and dispensing facilities and Internet-linked work and study spaces for small groups.

Initially launched six months ago with a more modest \$1-million goal, the campaign to fund the pharmacy laboratory gained momentum as individuals and corporations across North America expressed an interest in making a donation in honour of Binder. Canada's critical pharmacist shortage — resulting from the increasing treatment needs of an aging population and the public's enhanced expectations of pharmacists in terms of patient-centred care — also added impetus to the campaign.

"The new pharmacy practice laboratory will provide students with the most up-to-date facility for pharmacy education in North America," said Faculty of

Pharmacy dean Wayne Hindmarsh at recent event honouring Binder.

"Herb has proven himself to be an accomplished leader even in retirement," added David Bloom, chair and chief executive officer of Shoppers Drug Mart and co-chair of the Tribute Committee and campaign.

A native of Winnipeg, Binder graduated from U of T's Faculty of Pharmacy in 1960. After nine years in community pharmacy as an independent, he joined Shoppers Drug Mart and became the pharmacist-owner at locations first on Parliament Street and then Yorkdale Plaza. In 1980, he joined the company's corporate office as executive vice-president operations, Ontario, and became president and chief operating officer in 1989. He retired from the company in July as vice-chair.

"No words can convey the gratitude that I truly feel for the honour that has been given to me," said Binder. "I am both overwhelmed and humbled by your extreme generosity."

The \$44-million Leslie L. Dan Pharmacy Building will be located on the northwest corner of College Street and University Avenue. It will allow the faculty to double its undergraduate enrolment to 240 students, significantly increase the number of full-time teaching staff and triple the space for research laboratories currently available at U of T.



# MAKING THE GRADE

*When we condemn cheating, are we concerned about the students' morality or the reputation of the university?*

BY ANDRÉ GOMBAY

A FEW YEARS AGO A LOCAL TELEVISION STATION persuaded a high school teacher to do two things. First, deliberately misgrade a test he had set his class: in about a dozen copies, the marks for individual answers would be added up incorrectly so that the student got a higher total mark than he or she deserved — the fault being pretty obvious in each case. Second, the teacher would allow a hidden camera to film the class as the test was being returned to see if any hand went up to notify him of his mistake.

Surprise, surprise, none did. Whereupon the station convened a panel of "experts," each of us being asked what we thought of the episode: did it not bespeak a decay of the moral fibre in today's youth? My reply was that it would be rash to draw a conclusion about honesty from an experiment that so singularly lacked it; and more important, even if the misgrading had occurred by chance and not through contrivance, it was by no means clear that one should view as dishonest the students who kept mum. Might they not have seen the event simply as the luck of the draw? If in a tennis match, a return of mine is not called out even though I clearly saw it to have been so, am I honour-bound to draw this fact at once to the referee's attention? May I not regard the referee's mistake as part of the game? Yet in the match the undeserved point is even more directly detrimental to a fellow-being than the undeserved points were in the class test.

Though (heaven knows!) not-telling the truth is something in which we do not lack practice, it is not easy to say categorically how we feel about it, or how we feel we should feel. We have of course no hesitation over the stool-pigeon whose lying testimony leads to the condemnation of an innocent man. But will you look askance if I tell proud new parents how wonderfully lively their baby looks, when in fact he looks to me like every other baby? Do we condemn Homer's Penelope, who held off the suitors by unravelling each night the cloth she had woven during the day? Benevolent lying, or deceit in self-defence: these are behaviours that most of us are prepared to excuse, or even regard as justified. But now think of situations that are not so greatly removed from self-defence, though granted they are different in some respects: these are situations where people compete against one another. Think of sports. And closer to home, think of school and university classrooms.

This is not common knowledge, but systematic grading of students is a relatively new occurrence in Europe. It began

around 1600, probably first promoted by the Jesuits. They held that grades prompted in students the desire to compete (*emulatio*, they called it) — a stronger spur to learning than fear of punishment. So for the past four centuries, European children and adolescents have not simply been taught at school or university, they have had a *career* there ("career," by the way, is a 17th-century word). They have been endlessly graded and rated; made, until not long ago, to sit in the classroom according to their rank; they have been promoted or not promoted; they have had a CV (again a 17th-century word); and some of them have sought to make that CV more remarkable by resorting to artifices of one kind or another — ranging from outright falsification to an activity that is in effect the obverse of forgery: presenting as your own the work of someone else.

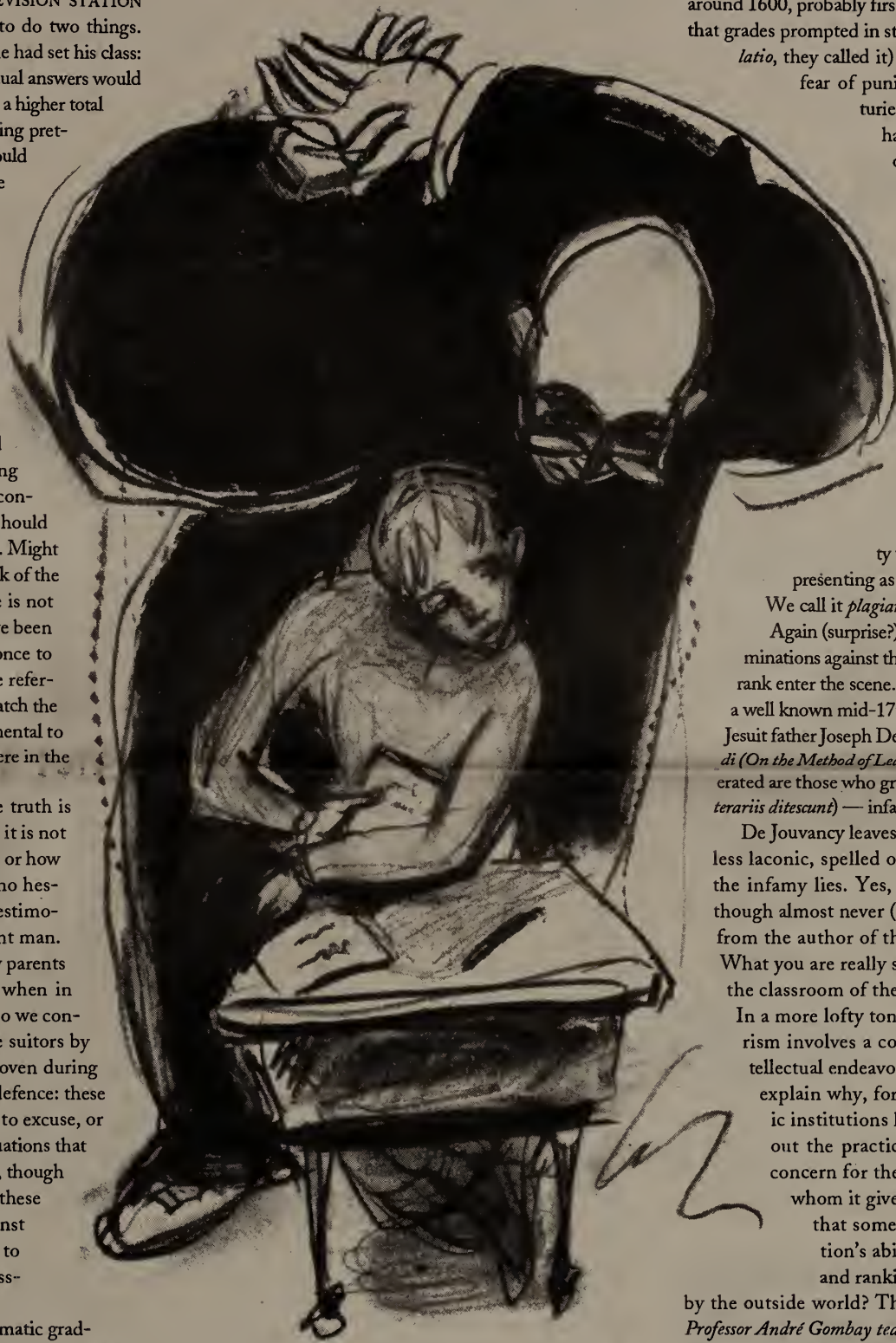
We call it *plagiarism*.

Again (surprise?), this is a 17th-century word; and fulminations against the practice begin as soon as grades and rank enter the scene. Here, for example, is a passage from a well known mid-17th pedagogical treatise written by the Jesuit father Joseph De Jouvancy, the *Ratio discendi et docendi* (*On the Method of Learning and Teaching*): "Least to be tolerated are those who grow rich from literary thefts (*furtis literariis ditescunt*) — infamous plagiarists (*infames plagiarii*)!"

De Jouvancy leaves it at that. One wishes he had been less laconic, spelled out a little more generously where the infamy lies. Yes, plagiarism does involve theft — though almost never (in any intelligible sense of "theft") from the author of the work you pass off as your own. What you are really stealing is the seat ahead of you in the classroom of the student who has *not* plagiarized. In a more lofty tone, one might also say that plagiarism involves a corrupt view of the integrity of intellectual endeavour. All this is true; but does it fully explain why, for the past four centuries, academic institutions have so relentlessly sought to root out the practice? Has the university such deep concern for the integrity of the souls of those to whom it gives degrees? Might one not suppose that something else is at stake: the institution's ability to have its grading and rating and ranking of students regarded as reliable

by the outside world? There's the rub.

Professor André Gombay teaches philosophy at both the St. George and the Mississauga campuses.



LAURA LEFRANCE

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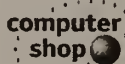
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## SPOTLIGHT ON RESEARCH

### THE NATURE OF THINGS

I HEAR  
THAT BEANS  
ARE NOW A  
BANNED  
SUBSTANCE



#### Sprint records gone with the wind

The world's fastest 200-metre sprinters may not be as fleet of foot as their records suggest, says physics PhD student Jonas Mureika. Numerical simulations he developed take into account the altitude and wind conditions under which races are run and show high elevations and favourable winds around the curve can unfairly benefit runners.

"World-class performances can be assisted by as much as 0.14 seconds when there is a two-metre-per-second wind at their back down the straight-away," Mureika said. "This figure can be more than 0.35 seconds if there is a strong wind blowing the right way around the curve as well."

High altitudes multiply the wind benefits, he added. His calculations show that high elevation, when coupled with favourable winds, can benefit 200-metre runners almost three times as much as their 100-metre counterparts. "Thinner air and tailwinds reduce the drag forces on an athlete. As they get tired towards the end of a race, this gives them enhanced endurance for a stronger finish."

According to current International Amateur Athletic Federation (IAAF) regulations — under which all major international competitions are run — only the wind speed down the straight-away is calculated in determining the degree of wind assistance and tailwinds stronger than two metres per second invalidate performances

for record purposes. Altitude variations have no official impact on their legality.

"The 200-metre sprint should be looked at more scientifically," Mureika suggested. "Cross winds need to be measured and I believe it's time to rethink the idea of ratifying altitude-assisted records."

To be published in an upcoming issue of *New Studies in Athletics*, the study includes recalculations of the five top male and female 200-metre performances based on the wind conditions and altitudes at the time of the races.

JUDY NOORDERMEER

#### Private health care unprofitable in Canada

Contrary to public perception private health care is legal across Canada, however, provincial health insurance legislation, designed to prevent a two-tiered system, makes private practice unprofitable, say U of T researchers.

"The absence of a significant private health care sector is explained by the prohibitions on the subsidy of private practice by public plans," Professor Colleen Flood of the Faculty of Law explained. "These measures prevent physicians from topping up their public sector incomes with private fees. You can practice privately but you can't get paid by the public health care system."

Flood and doctoral student Tom Archibald surveyed the health insurance legislation of all the provinces in Canada. They found that there is a myriad of regulations that have one objective — to prevent the public sector from subsidizing the private sector, as opposed to rendering privately funded practice illegal. In three provinces — New Brunswick, Newfoundland and Saskatchewan — there are no prohibitions on private insurance from covering medically necessary services that the public health care system provides or restrictions on the fees that could be charged in the private sector. "In these provinces, there are greater economic opportunities for physicians to practice outside the public plan and charge whatever they wish," Flood said. "However, there has not been a surge in private health care in these three provinces because of restrictions on physicians

being able to work in both the public and private sectors."

Flood said Canada is still a one-tiered system when providing physician and hospital care. "However, the trouble is there's a lot of growth in other areas that won't be covered by the Canada Health Act such as drugs, gene therapy and home care which receive private financing," she said. "We have to rethink the scope of our public health care system."

SUE TOYE

#### Natural medicine not always safe

Natural doesn't always mean harmless when it comes to herbal remedies, says a U of T professor studying the adverse effects of alternative medicine.

"There's a huge perception within the public and among some health care practitioners that natural things, especially herbs, are inherently safe," said Professor Heather Boon of health administration. "Yet as more people use herbal products and often mix them with other drugs we're seeing the incidence of adverse reactions increasing."

Boon and a research team from the department of psychiatry recently published an article in the *Canadian Journal of Psychiatry* on two case studies involving negative reactions to St. John's Wort and she said this is not the only herb that can have harmful side effects or interactions with other medications. "The thing to keep in mind is that what you're really ingesting is a group of chemicals that happen to come from an herb and if you take enough of them they're going to have a pharmacological action in your body just like any other chemicals."

Both consumers and physicians need to be better educated about herbal medicine, Boon said. "The increase in use of herbal products has outpaced our increase in knowledge about these things." One effective way to advance this knowledge is for patients to always report adverse reactions to their doctors, she said, because these case studies facilitate in-depth research on herbal medicines that will improve scientists' understanding of the possible actions and interactions of herbs.

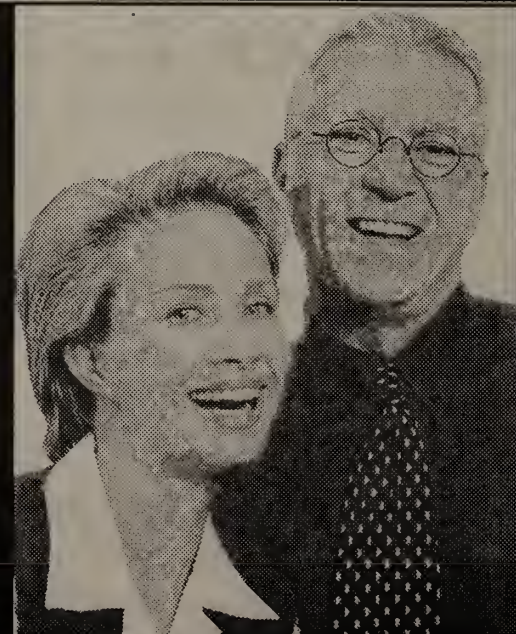
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## LETTERS



### MERIT AND EQUITY NOT MUTUALLY EXCLUSIVE

Professor John Furedy reports that Ontario universities have not retreated from equity in faculty hiring with the easing of provincial regulations (Universities committed to employment equity, March 12). His conclusions, apparently, are based on a review of the wording in Ontario university advertisements for new tenure-stream faculty during the Rae and early Harris years.

Professor Furedy has taken a refreshingly elemental approach to the at times esoteric and complex world of employment equity. However I find myself wondering how the advertising language (i.e. the *public* stance) was tested as a reliable gauge of *internal* practice and intent; what consideration was given to the Federal Contractors' program, which has similar employment equity objectives and which I assume still apply to a

number of Canadian universities; and whether universities are simply discovering that with some effort and care, merit and equity are by no means mutually exclusive goals.

Despite these niggles, I am sure that both "pro-equity and anti-equity people" — to use Professor Furedy's terms — will be able to take something away from this study.

LOIS REIMER  
TORONTO

### LETTERS DEADLINES

MARCH 30 FOR APRIL 9

APRIL 13 FOR APRIL 23

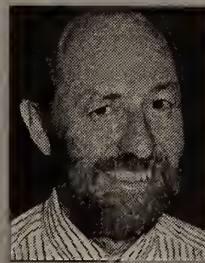
Letters may be edited for length or clarity. Please limit to 500 words and send to Ailsa Ferguson, associate editor, fax: 416-978-7430; e-mail: ailsa.ferguson@utoronto.ca. When submitting letters, please include a telephone number and, if possible, an e-mail address.

## ON THE OTHER HAND

BY NICHOLAS PASHLEY

### HAT HEAD AND ALL

IN THE LAST FEW MONTHS WE'VE SEEN many of the world's superstars pass through our town, from Dame Edna to little Britney Spears, from Ralph Nader to that Eminem guy. These all pale, however, with the recent visit of the International Olympic Committee evaluation team. If you're like me you were probably picking up bits of litter from the



sidewalk just in case they came by. I was only glad we didn't get one of those big snowstorms that would have had the mayor calling in the army and every able-bodied resident of Prince Edward Island again.

All in all, though, I thought it went pretty well. Okay, it was a bit embarrassing that reporters started asking members of the IOC team how they were enjoying Toronto so far before they'd even cleared customs, but you have to applaud their enthusiasm.

And I don't think any of us would have chosen the second week in March as the ideal time to show off our urban charms. This city — not to mention the people who live in it — is not at its best in March. Most of us are a bit wan and salt-stained, the winter boots we've worn practically every day since early December getting a little down-at-heel. The fourth month of a relentless winter had us looking a tad bedraggled, but we did our best to please. Alas there is no known cure for that distinctly Canadian medical condition with which we all struggle — hat head.

It didn't help our spirits to read, just before the IOC landed, that our rivals on the West Coast had been named the best city in the world for something called "quality of life," whatever that is. (I'm sure I used to know, but I forget in March.) I was glad to learn that this award was actually bestowed by a firm of accountants and that Vancouver was tied for top spot with that international mecca of fun, Zürich.

We Torontonians are puppy-like in our eager

desperation for the good opinion of others. How we glowed when Peter Ustinov described Toronto as "New York run by the Swiss," thinking it a compliment. How we beam and wag our little tails when a tourist from Rochester tells a *Toronto Star* reporter how clean everything is here. Yes, we cry, it really is, isn't it! And you can walk in relative safety

from *Mamma Mia!* to your hotel, assailed by only a few dozen modest requests for spare change.

Still, win or lose, I think we can hold our heads high, knowing that we took the moral high ground. The city fathers of Beijing sneakily painted that city's grass green to impress the IOC. We didn't do anything as shabby as that. We haven't seen grass for so long we wouldn't know what colour paint to buy. And thanks to budget cuts we couldn't afford to clear the snow to get at the grass in any case.

We let the IOC people meet our anti-Olympic protesters, and you can bet that didn't happen in Beijing. No, we let them see us as we are, warts and all, even to the point of letting them meet Mel Lastman, Mike Harris and Jean Chrétien. I thought that was taking a bit of a risk, quite honestly, but we have to take risks if we're to be given the chance to build a velodrome to leave to our children and grandchildren.

What did they really think of us, these worldly IOC nabobs? I think we get a pretty clear hint from the words of evaluation committee chair Hein Verbruggen, as quoted by *The Sunday Star*: "You know, we had a good trip, a very fruitful one, and, ah, very interesting." The words we longed to hear! I'm told city council is considering a new motto for Toronto: Ah, very interesting. It'll look better in Latin.

Nick Pashley buys, sells and reviews books for the U of T Bookstore.

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## BOOKS



The *Collectio canonum Casinensis duodecimi seculi* (Codex terscriptus, by Roger E. Reynolds (Pontifical Institute for Mediaeval Studies, Studies and Texts 137; 129 pages; \$31.95). This volume is a study and "implicit" edition of a 12th-century collection of ecclesiastical law made in the ancient home of the Benedictine order, Montecassino. Since many of the texts found in the collection have been published elsewhere this is an "implicit" edition giving only the incipit or beginning and the explicit or end of each canon together with an identification of the source and where a published or manuscript version may be found.

*Minds in the Making: Essays in Honor of David R. Olson*, edited by Janet Wilde Astington (Blackwell Publishers; 299 pages; \$88.95 cloth, \$41.50 paper). This collection of essays presents two complementary perspectives on the development of children's minds: one considering the role of society in the construction of the mind; the second showing how the mind constructs itself during the course

of cognitive growth. Inspired by Olson's work, this book reviews the literature supporting these two positions, poses new directions and provides a comprehensive overview of the field.

*The Catholic Church in Spain, 1875-1998*, by William J. Callahan (Catholic University of America Press; 695 pages; \$49.50 US). A comprehensive history of one of Spain's key institutions during a long and conflictive period, this study focuses on the attempt of the Spanish Church to sustain its position in a society experiencing rapid social, political and economic change. It examines the reasons behind the church's failure to recreate the Catholic Spain of a vanished golden age and the consequences of that failure.

*At the Dawn of Modernity: Biology, Culture and Material Life in Europe After the Year 1000*, by David Levine (University of California Press; 431 pages; \$49.95 US). Looking at a neglected period in the social history of modernization, this book investigates the

centuries that followed the year 1000 when a new kind of society emerged in Europe. It highlights both the top-down and bottom-up changes that characterized the social experience of early modernization, arguing that the making of the modern world began as much in the decisions of countless men and women regarding their families and circumstances as it did in the conscious policies of state formation.

*Marginalia: Readers Writing in Books*, by Heather Jackson (Yale University Press; 324 pages; \$27.95 US). A study of manuscript notes in books in the late modern period, this book examines this familiar but little understood phenomenon and considers such topics as the way the physical format of the book lends itself to different kinds of note; the history and psychology of readerly annotation; the poetics of marginalia; and the resistance to writing in books. It provides case studies of individual volumes and profiles of sets of annotated books associated with a single reader or single title.



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## HEALTH SERVICES

**PERSONAL COUNSELLING** in a caring, confidential environment. U of T extended health benefits provide excellent coverage. Evening appointments available. Dr. Ellen Greenberg, Registered Psychologist, Medical Arts Building, 170 St. George Street. 416-944-3799.

**Psychotherapy** for individuals and couples. Coverage under extended health care benefits. Evening hours. Dr. Gale Bildfell, Registered Psychologist, Hincks-Dellcrest Institute, 114 Maitland Street. 416-972-6789.

**Individual psychotherapy for adults.** Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland Street (Wellesley and Jarvis). 416-469-6317.

**PSYCHOANALYTIC PSYCHOTHERAPY** with a Registered Psychologist. Dr. June Higgins, Medical Arts Building, 170 St. George Street (Bloor and St. George). 416-928-3460.

**DR. DVORA TRACHTENBERG & DR. GINA FISHER, PSYCHOLOGISTS.** Individual/couple/marital psychotherapy. Help for depression/anxiety/loss/stress; work/family/relationships/communication problems; sexual orientation/women's issues. U of T health benefits apply. Medical Arts Building (St. George and Bloor). 416-961-8962.

**Psychologist providing individual and couple therapy.** Work stress, anxiety, depression, personal and relationship concerns. U of T health plan covers cost. Dr. Sarah Maddocks, Registered Psychologist, 114 Maitland Street (Wellesley & Jarvis). 416-972-1935 ext. 3321.

**Dr Neil Pilkington (Psychologist).** Assessment and cognitive-behaviour therapy for mood and anxiety problems, including: depression/low self-esteem, phobias, social and performance anxiety, panic attacks, agoraphobia, worry/stress and obsessions/compulsions. Staff/faculty health care benefits provide full coverage. Daytime, evening and



## CLASSIFIED

weekend appointments available.  
Downtown/TTC. 416-977-5666.

**Psychotherapy for personal and relationship issues.** Individual, groups and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor).

**Dr. Will Cupchik, Clinical Psychologist.** Thirty-five years' counselling experience. Adult, couple, teenage and inter-generational (i.e., adult child and his/her parent) psychotherapies. Self-esteem. Depression. Anger. Loss. Worry. Stress management. Coaching. Heart-healthy lifestyle changes. U of T extended health care benefits partially or totally covers fees. 250 St. Clair Avenue West. 416-928-2262.

**Psychotherapy and counselling** focused on helping you understand yourself, your relationships and your problems. Adults: individuals and couples. Dr. Evelyn Sommers, Psychologist. 416-413-1098. (Yonge/Bloor).

**FAMILY MEDIATION:** A co-operative process that enables separating couples to develop their own solutions to issues such as custody and support. The reduced conflict has immediate and long-lasting benefit for all parties. Peggy O'Leary, M.Ed., C.Psych. Assoc. 416-324-9444.

**Dr. S. Camenietzki, located at Yonge & St. Clair.** Provides individual, group and marital sessions. Assessments available. Call: 416-929-7480.

**Psychotherapy** responsive to your individual needs for personal, relational and spiritual growth. Services may be eligible for employee health insurance coverage and/or income tax deduction. Dr. Carol Musselman, Registered Psychologist, 251 Davenport Road, 416-925-7855.

**ADULT, COUPLE, CHILD ASSESSMENT/PSYCHOTHERAPY.** Depression, anxiety, loss/trauma. Clinical/psycho-educational assessment of children/adolescents. Evening/weekend appointments available. Benefit coverage for U of T Staff. Dr. M. Gholamain, Registered Psychologist, 114 Maitland Street, 416-972-1935 ext. 3328.

**Full range of psychological services** offered by Dr. K. P. Simmons. Call 416-920-5303 if troubled by trauma, anxiety, depression, phobia or relationship issues. Location: 170 St. George Street, Suite 409 — Medical Arts Building.

**REGISTERED MASSAGE THERAPY.** For relief of muscle tension, chronic pains and stress. Treatments are part of your extended health care plan. 170 St. George Street (at Bloor). For appointment call Mindy Hsu, B.A., R.M.T. 416-918-8476.

**Cognitive therapy for stress, anxiety and depression.** U of T staff extended health benefits provide full coverage. Fully or partially covered by most other health plans. Contact: Dr J.A. Shillingford, Registered Psychologist, First Canadian Medical Centre (Adelaide & Bay), 416-368-6787.

**PHYSIOTHERAPY/MASSAGE THERAPY.** For relief of neck pain, back pain, headaches, arthritis, sports injuries, chronic pain and stress. Services available: physiotherapy, massage, chiropractic, foot care. Covered by U of T health insurance. Downtown West Physiotherapy and Rehabilitation. Call 416-533-4933.

**Do you suffer from panic disorder** or a phobia or other anxiety disorder? ("I know what it feels like." "I got better and you can too!"). Professional mental health counselor, CC(Psych.), B.A. (SIPAR), Cert. SW, Clinical Member, OSP, can help! 416-530-2408 (students pay 50% less).

### MISCELLANY

**LOST.** One turquoise/silver drop earring. February 2001 in King's College Circle area. Made by family member. Great sentimental value. If found please call 416-415-2106. Thank you.

**English tutors wanted:** Experienced or linguistic student preferable. 1) Looking for an articulate English speaker with good grammar background to improve English. Call 416-568-8363. 2) Japanese teacher looking for language exchange. Call 416-525-1625.

**TEMENOS is now accepting resumes for director & stage manager,** for staged readings of THE IMMORTAL HOUR, a Celtic Revival fairy play (1900), late July. This spooky romance by Yeats' friend Fiona Macleod (secretly William Sharp) was a cult hit in 20s London as an opera. Its theme is the Wooing of Etain, Ireland's mythic heroine, by human and Sidh husbands. Resumes & inquiries: cbishop@interlog.com

**Spanish classes CMCEC.** Communicative method. April 9 to June 16 \$220. ALSO: Teaching of a foreign language certificate, English and/or Spanish. Classes held on campus. To register please call: 416-921-3155, 252 Bloor Street West, 7th floor south side lounge. www.canadamexico.com

**A WONDERFUL RETIREMENT MOVE FOR YOUR GOOD BOOKS!** Donate new/older/antiquarian books in healthy condition to 26th annual volunteer Trinity College Book Sale. Library benefits. For pick-up/information, 416-978-6750.

## Is our NATIONAL IDENTITY on the Canadian media's agenda?

### The School of Graduate Studies & Massey College 2001 Symposium

Wednesday, March 28, 2001 • 8:00 p.m.  
George Ignatieff Theatre  
University of Toronto  
15 Devonshire Place

#### SPEAKERS

CBC President and CEO  
Robert Rabinovitch

CTV Executive VP  
Trina McQueen

Globe & Mail Journalist  
Lysiane Gagnon

Director, Aboriginal Voices Radio Network  
Gary Farmer

For more information  
please call 416-978-2895



The University of Toronto Faculty Association (UTFA) announces the

## UTFA TUITION BURSARY AWARDS 2000/2001



Ms. Tatjana Takseva Chorney



Ms. Elise Ying Wah Wong

UTFA awarded two *Tuition Bursaries* for the academic year 2000/2001 to Ms. Tatjana Takseva Chorney, (Faculty of English) and Ms. Elise Ying Wah Wong (Faculty of Dentistry). Both will not have to pay their tuition fees and incidental costs up to the amount of \$2,000.00. These UTFA *Tuition Bursaries* can be renewed for subsequent years conditional upon demonstrated need and satisfactory academic standing.

Two other (one graduate and one undergraduate) UTFA *Tuition Bursaries* will be awarded for the academic year 2001/2002. Students from all faculties are eligible and encouraged to apply starting March 2001.

The *Tuition Bursaries* were set up, because UTFA believes that an inability to pay tuition fees should not be a barrier to obtaining or continuing a university education.

## We value your opinion ...

that's why the back page of *The Bulletin* is devoted to Forum, a place where thoughts, concerns and opinions of interest to colleagues across the university find expression.

Original essays by members of the community are both welcomed and encouraged. Faculty, staff and students are invited to submit or discuss ideas with:

JILL RUTHERFORD, EDITOR

*The Bulletin*

978-7016

jill.rutherford@utoronto.ca

*Look forward to hearing from you!*

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# EVENTS



## LECTURES

### Juan José Tablada: Textual Manifestations of the Poetic Imagination.

**TUESDAY, MARCH 27**  
Prof. Rodolfa Mata, Universidad Autónoma de Mexico; lecture in Spanish. Alumni Hall, Victoria College. 5:30 p.m. *Spanish & Portuguese*

### England's First Widow Printer: The Life, Times and Kin of Elizabeth Pickering Jackson Redman Cholmeley Cholmeley.

**WEDNESDAY, MARCH 28**  
Prof. Peter Blayney, English. 140 University College. 4:15 p.m. *Toronto Centre for the Book and University College*

### Hostile Takeover: The Privatization of Public Services.

**WEDNESDAY, MARCH 28**  
Judy Darcy, Canadian Union of Public Employees, with Shirley Goldberg, Sefton Award winner and pioneer in establishing women's presence in academic industrial relations in Canada; Sefton memorial lecture. Faculty Club. 7 p.m. *Woodworth College and Industrial Relations*

### Syriac Heritage on the Northern Silk Road: The Archeological and Epigraphic Evidence of Christianity in Kirghizia.

**THURSDAY, MARCH 29**  
Prof. Wassilios Klein, Bonn University. 1050 Earth Sciences Centre. 8 p.m. *Canadian Society for Syriac Studies*

### New Directions in the Description of Medieval Books.

**FRIDAY, MARCH 30**  
William Stoneman, Houghton Library, Harvard University. Senate Chamber, Alumni Hall, St. Michael's College. 4 p.m. *Friends of the Library, Pontifical Institute of Mediaeval Studies*

### Mediation in Climacus' Conception of Religiousness A.

**FRIDAY, MARCH 30**  
Prof. Em. Henry Pieterse, philosophy. Senior Common Room, Trinity College. 7:30 p.m. *Kierkegaard Circle*

### Buber, Cohen, Rosenzweig and the Politics of Cultural Affirmation.

**MONDAY, APRIL 2**  
Dana Hollander, 2000-2001 Ray D. Wolfe Fellow. Croft Chapter House. 4:15 p.m. *Jewish Studies*

### The Uneven Periphery: Home-Based Work in Canada.

**MONDAY, APRIL 2**  
Prof. Kiran Mirchandani, OISE/UT; Popular Feminism series. 2nd floor, Ontario Institute for Studies in Education of the University of Toronto, 252 Bloor St. W. 8 p.m. *Women's Studies in Education, OISE/UT*

### The Renaissance Monster: A Primer of the Unnatural.

**THURSDAY, APRIL 5**  
Prof. Josiah Blackmore, Spanish and Portuguese. Senior Common Room, Burwash Hall, Victoria College. 4:15 p.m. *Reformation & Renaissance Studies and Toronto Renaissance & Reformation Colloquium*

### Imagining Canada — a Beacon for the Global Future.

**THURSDAY, APRIL 5**  
Pico Iyer, writer and author; first Hart House lecture. Great Hall, Hart House. 7:30 p.m. *Hart House*

### The White Image in the Black Mind: African-American Ideas About White People, 1830-1925.

**FRIDAY, APRIL 6**  
Prof. Mia Bay, Rutgers University. 208N Munk Centre for International Studies. 2 to 4 p.m. *Study of the United States*

## COLLOQUIA

### Buying the Sands of Time: How the Harvard Peabody Museum Got Its Collections.

**WEDNESDAY, MARCH 28**  
Prof. Michael Chazan, anthropology. 323 Old Victoria College. 4 p.m. *IHPST*

### Health Care and Equality of Opportunity.

**THURSDAY, MARCH 29**  
Prof. Gopal Sreenivasan, Princeton University. 179 University College. 4 p.m. *Philosophy*

### Faster-Than-Light Effects and Negative Group Delays in Optics and Electronics and Their Applications.

**THURSDAY, MARCH 29**  
Prof. Raymond Chiao, University of California at Berkeley. 102 McLennan Physical Laboratories. 4:10 p.m. *Physics*

### New Structure and Bonding for the Elements of Group 15.

**FRIDAY, MARCH 30**  
Prof. Neil Burford, Dalhousie University. 158 Lash Miller Chemical Laboratories. 3:30 p.m. *Chemistry*

### Why Scientists Sometimes Miscite the Literature: A Hullian Evolutionary Account.

**WEDNESDAY, APRIL 4**  
Prof. Kim Vicente, mechanical and industrial engineering. 323 Old Victoria College. 4 p.m. *IHPST*

### Naming and Lexical Decision Latencies for All Single Syllable Words in English: Initial Report From Wordnerd's Paradise.

**WEDNESDAY, APRIL 4**  
Prof. David Balota, Washington University. 2117 Sidney Smith Hall. 4 p.m. *Psychology*

### Global Measurements of Pollution From Space: The MOPITT Experiment.

**FRIDAY, APRIL 6**  
Prof. Jim Drummond, physics. 158 Lash Miller Chemical Laboratories. 3:30 p.m. *Chemistry*



## SEMINARS

### Interaction of the Pathogenic Bacterium *Listeria* Monocytogenes With Mammalian Signalling Pathways.

**MONDAY, MARCH 26**  
Prof. Keith Ireton, medical genetics and microbiology. 2172 Medical Sciences Building. 4 p.m. *Laboratory Medicine & Pathobiology*

### Media Merger Mania: What Does It All Mean?

**MONDAY, MARCH 26**  
Malim Harding symposium. Moderator: Prof. Janice Stein, political science. Panelists: Prof. Ted Magder, New York University, Malim Harding visitor; Rick Salutin, columnist, *The Globe and Mail*; Barry Kiehl, independent research consultant; and Kirk LaPointe, senior vice-president, CTV News. Vivian & David Campbell Conference Facility, Munk Centre for International Studies. 7:30 p.m. *Political Science and Economics*

### Imaging Phosphoinositide Metabolism in Activated Macrophages.

**WEDNESDAY, MARCH 28**  
Dr. Serio Grinstein, Hospital for Sick Children. 968 Mt. Sinai Hospital. Noon. *Samuel Lunenfeld Research Institute*

### Registration and Mood: OGPU Information Reports and the Soviet Surveillance System.

**THURSDAY, MARCH 29**  
Prof. Terry Martin, Harvard University. 14352 Robarts Library. 3 to 5 p.m. *Russian & East European Studies*

### The Ingenuity Gap: How Can We Solve the Problems of the Future?

**FRIDAY, MARCH 30**  
Prof. Thomas Homer-Dixon, political science. 208N Munk Centre for International Studies. Noon to 2 p.m. Registration: cis.general@utoronto.ca. *International Studies*

### Drug Metabolism Studies in Development of CNS Drugs.

**FRIDAY, MARCH 30**  
Lars Dalggaard, Lundbeck, Copenhagen. 105 Pharmacy Building. 1 p.m. *Pharmacy*

### Federalism, Democracy and Nation(s).

**FRIDAY, MARCH 30**  
Prof. Alfred Stepan, Columbia University. 3050 Sidney Smith Hall. 2 to 4 p.m. *Political Science*

### U.S. Grand Strategy Towards China in the Cold War Era.

**FRIDAY, MARCH 30**  
Prof. Rosemary Foot, Oxford University. 108N Munk Centre for International Studies. 3 to 5 p.m. *Joint Centre for Asia Pacific Studies*

### Strabo and the Roman Provinces.

**FRIDAY, MARCH 30**  
Sarah Potecary, independent scholar. Woodbury Room, 97 St. George St. *Classics*

### The International Aspect of the Ukrainian Revolution.

**FRIDAY, MARCH 30**  
Oleksandr Pavliuk, Kyiv Centre. 256 University College. 4 p.m. *Canadian Institute of Ukrainian Studies*

### Dynamic Phosphoregulation of Actin and Endocytosis Revealed by Real-Time Chemical-Genetic Analysis.

**MONDAY, APRIL 2**  
Prof. David Drubin, University of California at Berkeley. 11 a.m. *BBDMR*

### Developmental Role of Kinase T2K in Prevention of Liver Apoptosis: Alternate Modes of NF-kappaB Activation.

**MONDAY, APRIL 2**  
Wen-Chen Yeh, Amgen. 2172 Medical Sciences Building. 4 p.m. *Laboratory Medicine & Pathobiology*

### Biodiesel: Chemist Meets Chemical Engineer.

**WEDNESDAY, APRIL 4**  
Prof. David Boocock, chemical engineering and applied chemistry. 116 Wallberg Building. 12:30 a.m. *Chemical Engineering & Applied Chemistry*

### Sustainable Development in Canada: Issue of Emerging Importance for the Future.

**WEDNESDAY, APRIL 4**  
Gene Nyberg, National Round Table on the Environment and the Economy, Ottawa. 2093 Earth Sciences Centre. 4 p.m. *Environmental Studies*

### The Coming Catastrophe in International Health.

**FRIDAY, APRIL 6**  
Prof. Solomon Benatar, Joint Centre for Bioethics and University of Cape Town.

208N Munk Centre for International Studies. Noon to 2 p.m. Registration: cis.general@utoronto.ca. *International Studies*

### Globalization and the Empty Core of Liberalism: Reading Fukuyama Through The Truman Show.

**FRIDAY, APRIL 6**  
Prof. Cynthia Weber, University of Leeds. 3050 Sidney Smith Hall. 2 to 4 p.m. *Political Science*

### Gender and Protestant-Catholic Difference in Loudun, France (1598-1665): Evidence From Notarial Documents.

**FRIDAY, APRIL 6**  
Edwin Bezzina, PhD candidate, history. 205 Northrop Frye Hall, Victoria College. 3:15 p.m. *Reformation & Renaissance Studies*

### Elder Abuse: Past, Present and Future Research Initiatives.

**MONDAY, APRIL 9**  
Prof. Elizabeth Podnieks, Ryerson Polytechnic University. Main floor, Fields Institute. Noon to 1:30 p.m. *Human Development, Life Course & Aging*

### Plant-Geese Interactions in Winter and Spring Areas in Western Europe.

**MONDAY, APRIL 9**  
Prof. Jan Bakker, University of Groningen, Netherlands. B142 Earth Sciences Centre. 3 p.m. *Botany*



## MEETINGS & CONFERENCES

### Levy-Wasteneys Symposium.

**TUESDAY, MARCH 27**  
Symposium in memory of the late Prof. Em. Kurt Levy, noted scholar of Colombian literature and chair of Spanish and Portuguese from 1978 to 1983. Highlights: graduate student presentations, 2 to 4 p.m.; homage of Prof. Em. Kurt Levy, 4:30 p.m.; Lecture by Prof. Rodolfo Mata, Universidad Autónoma de Mexico: Juan José Tablada: Textual Manifestations of the Poetic Imagination (in Spanish), 5:30 p.m. *Spanish & Portuguese and Spanish & Portuguese Graduate Student Union*

### University Affairs Board.

**TUESDAY, MARCH 27**  
Council Chamber, Simcoe Hall. 5 p.m.

### Old Elites and New Questions: Nobilities in Modern Europe.

**WEDNESDAY, MARCH 28**  
La mobilité des anoblis d'Empire en France, Natalie Petiteau, University of Avignon; Modern France and Noble Culture, David Higgs, University of Toronto; The Aristocracy of Modern Spain, William Callahan, University of Toronto; The Belgian Nobility in the 19th Century, Samuel Clarke, University of Western Ontario; The German Aristocracy in the 19th and 20th Centuries: New Approaches in Recent Research, Eckart Conze, University of Toronto and University of Tübingen. Convenors: Eckart Conze and David Higgs. 108N Munk Centre for International Studies. 4 to 7 p.m. Registration: 416-946-8997 or institute.eurostudies@utoronto.ca. *History and York-U of T Institute of European Studies*

### Dante and Cinema.

**FRIDAY, MARCH 30 TO  
SUNDAY, APRIL 1**  
Sessions in 179 University College.

### FRIDAY, MARCH 30

Session I: Dante's *Inferno* and *Paradiso* in Silent Italian Cinema. Dante e il cinema muto italiano: *L'inferno*, Aldo Bernardini, film historian; Tales of Early Cinema: Dante in the Italian Film Journal *Lux*, 1909-1911, John Welle, University of Notre Dame; The Helios-Psiche *Paradiso*, Vittoria Colonnese Benni, University of Toronto. 2 to 4:30 p.m.

### SATURDAY, MARCH 31

Session II: Recurring Dantean Cinematic Ideas: Politics, Sex, Gender and Race. Visioni infernali nel Maciste all'Inferno di Brignone, Gianfranco Casadio, Provincia of Ravenna; Spencer Williams and Dante: An African-American Filmmaker at the Gates of Hell, Dennis Looney, University of Pittsburgh; The Metamorphosis of the Image: Dante's *Paradiso* and the Cinema of Maurizio Nichetti, Marguerite Waller, University of California at Riverside. 8:30 to 10:30 a.m.

Session III: Dante and Contemporary Cinema: The Italian Masters. Fellini's "Infernal Circles," Guido Fink, Istituto Italiano di Cultura, Los Angeles; Dopo tanto veder: Pasolini's Dante After the Disappearance of the Fireflies, Patrick Rumble, University of Wisconsin. 11 a.m. to 1 p.m.

Session IV: Dante and Contemporary Cinema: The New Wave. The "Comic" Vision: Dante's Divine Comedy, Manuela Gieri, University of Toronto; Lovesickness, Dante's Francesca and David Lynch's Dorothy/Sandi, Massimo Ciavolella, University of California at Los Angeles; Dante and Cinema: Film Across a Chasm, Bart Testa, University of Toronto. 2:30 to 4:30 p.m.

### SUNDAY, APRIL 1

Session V: Dante and Canadian Cinema. Dante and Canadian Cinema, John Tulk, University of Toronto; Dante and *The Book of All the Dead*, Bruce Elder, Ryerson Polytechnic University. 9 to 11 a.m. Information: 416-978-7415, humanities.centre@utoronto.ca. The film festival will be held at Cinematheque Ontario and will run from March 30 until April 7. Screenings at Jackman Hall, Art Gallery of Ontario. Tickets \$8, members \$4.80, student members and seniors \$4.25. *U of T Humanities Centre, Film Studies Program, Cinematheque Ontario and Italian Cultural Institute*

### Academic Board.

**THURSDAY, MARCH 29**  
Council Chamber, Simcoe Hall. 4:15 p.m.

### Borders: Issues and Prospects for Successor States of the Former Yugoslavia.

**FRIDAY, MARCH 30 AND  
SATURDAY, MARCH 31**  
A multidisciplinary, graduate student conference on current issues in southeast Europe. Sessions in 126 Woodsworth College.

### FRIDAY, MARCH 30

Borders and Boundaries as Analytical Concepts in Anthropology: The Case of the Slovenian Triple Border, Irena Sumi, Graduate School of Humanist Studies, Ljubljana. 9:15 a.m.

Panel 1: Memory and Legacy. Between "Remembrance and Oblivion": The Politics of Memory in Yugoslav Democratization, Christine Lawrence, York University; An Assessment of 20th-Century Views on Ottoman Legacies in the Balkans, Edin Hajdarasic, University of Michigan at Ann Arbor; The Triumph of Agency? Legacies, Leaders and International Factors in Post-Communist Croatia, Mieczyslaw Boduszynski, University of California at Berkeley. 10:30 to noon.

Keynote address by Robert Hayden, University of Pittsburgh. 1 p.m.

Panel 2: Identity. National Building and Political Modernization in 19th-Century Serbia, Dejan Guzina, Queen's



# EVENTS

University; Serb Cultural Identity in Bosnia, 1878-1914: The Bosnian Serb Intellectuals, Jelica Zdero, University of Western Ontario. 2:30 to 4 p.m.

## SATURDAY, MARCH 31

Panel 3: Gender. Women as Agents of Ethnic Reconciliation? The Gendering of International Intervention and Women's NGOs in Bosnia-Herzegovina, Elissa Helms, University of Pittsburgh; The Effect of Democratic Transition on Women in the Yugoslav Successor States, Jennifer Fox, University of Texas at Austin; Reproducers of Nations, Markers of Boundaries and Voices of Dissent: The Role of Women in the Former Yugoslavia's Nationalist Conflict, Lisa Rumić, York University. 9 to 10:30 a.m.

Panel 4: Borders and Politics. Understanding Ethnic Politics in Southeast Europe: A Comparative Study of Nationalist Mobilization Episodes in Serbia, Greece and Turkey in the Post-Cold War Era, Neophytos Loizides, University of Toronto; The Stability Pact for Southeastern Europe: Challenges and Strategies, Srdan Vucetic, York University. 11 a.m. to 12:30 p.m.

Inter-ethnic Reconciliation and Southeast European Stability, Goran Lapčević, European Movement of Serbia. 3:30 p.m. Registration: creesconference@hotmail.com. Mr. Savo Tadić, Russian & European Studies; International Studies, Graduate Studies, Arts & Science, Slavic Languages & Literatures, Graduate Students' Union and CREES Graduate Student Union

## Byzantine Monasticisms.

FRIDAY, MARCH 30 TO  
SUNDAY, APRIL 1

An interdisciplinary conference on the varieties of ascetical life in the Byzantine Empire, focusing on the current state of scholarly research in Byzantine monasticism and highlighting areas in need of further study. Papers on People (founders, reformers, benefactors), Forms of Ascetical Life and Monastic Philanthropy form the heart of the conference. Sessions in Father Madden Lecture Hall, Carr Hall, St. Michael's College. Registration fee: \$75 Cdn/\$60 US; students and non-salaried \$25; at the door \$85 Cdn, students and non-salaried \$30 Cdn. Faculty of Theology, University of St. Michael's College

## Business Board.

MONDAY, APRIL 2

Council Chamber, Simcoe Hall. 5 p.m.

## Joint Meeting American Catholic Historical Association/ Canadian Catholic Historical Association.

FRIDAY, APRIL 6 AND

SATURDAY, APRIL 7

All sessions in the Cardinal Flahiff Centre, St. Michael's College.

## FRIDAY, APRIL 6

Social Justice; Missionary Activity in French North America; Aspects of North American Catholicism. 9:15 to 10:45 a.m.

Catholicism and Liberalism in the "American Century"; Catechetical Applications in Missionary Practice: The Early Modern Experience; Creating the American Parish. 11 a.m. to 12:30 p.m. Current Scholarship in the Historiography of Women Religious; The Catholic Struggle With Political Institutions; Secundum Litteram: Literal Exegesis and Cultural Change in Medieval Christianity. 2:30 to 4 p.m.

## SATURDAY, APRIL 7

Popular Catholicism in the United States and Canada; The Church in a Time of Upheaval; The Catholic Church and the Failure of Inculturation in India and Zimbabwe. 9:15 to 10:45 a.m.

Reform and Renewal in Early Modern Europe; The Church in Quebec After the Second World War; 11 a.m. to 12:30 p.m.

European Catholicism Between the Wars; Challenging American Catholic Laity at Mid-Century; Tradition in 20th-Century American Catholicism.

2:30 to 4 p.m. Registration fee: \$60 Cdn/\$40 US, students \$10. Full program and registration information: www.unmanitoba.ca/colleges/st\_pauls/ccha. University of St. Michael's College and Victoria College



## MUSIC

### FACULTY OF MUSIC EDWARD JOHNSON BUILDING

#### Jazz Orchestras.

WEDNESDAY, MARCH 28

10 o'clock and 11 o'clock orchestras, directed by Paul Read and Phil Nimmons. Walter Hall. 8:30 p.m. Tickets \$12, students and seniors \$6.

#### Thursday Noon Series.

THURSDAY, MARCH 29

Student chamber ensembles: strings. Walter Hall. 12:10 p.m.

THURSDAY, APRIL 5

Student chamber ensembles: woodwinds. Walter Hall. 12:10 p.m.

#### Choral Music on Campus.

FRIDAY, MARCH 30

Grand and Glorious Choruses: U of T Choirs; Doreen Rao, conductor. MacMillan Theatre. 8 p.m. Tickets \$12, students and seniors \$6.

#### Wind Symphony and Concert Band.

SATURDAY, MARCH 31

Stephen Chenette, conductor; Peter Stoll, clarinet. MacMillan Theatre. 8 p.m. Tickets \$12, students and seniors \$6.

#### Faculty Artist Series.

FRIDAY, APRIL 6

An evening of chamber music featuring Patrick Gallois, flute; William Aide, piano; Shauna Rolston, cello; the U of T cello ensemble; and guest Calude Kenneson. Walter Hall. 8 p.m. Tickets \$20, students and seniors \$10.

#### U of T Symphony Orchestra.

SATURDAY, APRIL 7

Agnes Grossmann, guest conductor. MacMillan Theatre. 8 p.m. Tickets \$12, students and seniors \$6.

## HART HOUSE

### Midday Mosaics.

FRIDAY, MARCH 30

Erik Oland, baritone; Donald Boere, clarinet; Beverley Lewis, piano. Great Hall. Noon.

THURSDAY, APRIL 5

Lynn Kuo, violin; Rafael Hoekman, cello; Gregory Williams, clarinet; Rachelle Risling, piano. Music Room. Noon.

## VICTORIA UNIVERSITY The Vic Chorus Spring Concert.

FRIDAY, MARCH 30

Taylor Sullivan, conductor. Isabel Bader Theatre, 93 Charles St. W. 8 p.m.



## PLAYS & READINGS

### U of T Bookstore Series.

FRIDAY, MARCH 30

Screen/Writer Take Two, featuring John Irving and Michael Ondaatje with Esta Spalding, Brian Johnson and hosted by Albert Schultz; sponsored by Westwood Creative Artists. Convocation Hall. 7:30 p.m. Tickets \$20 and \$25, proceeds to PEN Canada.



## EXHIBITIONS

### THOMAS FISHER RARE BOOK LIBRARY

Book History and Print Culture:  
A Celebration of the  
Collaborative Program at the  
University of Toronto.

TO MAY 25

Exhibition illustrates various aspects of book history from the manuscript tradition to the present day. Hours: Monday to Friday, 9 a.m. to 5 p.m.

### UNIVERSITY OF TORONTO ART CENTRE

Paper Icons From Mount Athos:  
Orthodox Religious Engravings.

TO JUNE 2

Exhibition of paper icons from the Museum of Byzantine Culture & Civilization in Thessaloniki, Greece.

### From Bermuda Palms to Northern Pines: Two Centuries of Art Inspired by Bermuda.

TO AUGUST 3

Focusing on works by artists who have visited and painted in Bermuda, the pieces in this exhibition are on loan from the Masterworks Foundation as well as from various Canadian public galleries and private collectors. Hours: Tuesday to Friday, noon to 5 p.m.; Saturday, noon to 4 p.m.

### U OF T AT MISSISSAUGA Graduate Exhibition.

MARCH 29 TO APRIL 8

Second of three consecutive exhibitions of work by visual arts graduates from U of T at Mississauga and Sheridan College. Blackwood Gallery. Hours: Sunday to Friday, 1 to 5 p.m.; Thursday, 1 to 9 p.m.

## MISCELLANY

### Help, I Have Teenagers.

WEDNESDAY, MARCH 28

Session provides an opportunity to discuss and learn about commonly encountered problems in parenting

adolescents. U of T at Scarborough. Noon. Registration and information: 416-978-0951, family.care@utoronto.ca.

### What to Do With the Kids This Summer.

WEDNESDAY, MARCH 28

Information of all types of summer activities and programs for children, including some that are free. Koffler Student Services Centre. Noon. Registration and information: 416-978-0951, family.care@utoronto.ca.

### Spring Record & Book Sale.

WEDNESDAY, APRIL 4

Thousands of vinyl and CD recordings, books and printed scores available. Lobby, Edward Johnson Building. 11 a.m. to 5 p.m.; presale, recordings only (admission \$5). Monday, April 2. Room E106. 4:30 to 7 p.m.

### Alzheimer Support Group.

THURSDAY, APRIL 5

A support group for students, staff and faculty whose loved ones have Alzheimer's disease. Koffler Student Services Centre. Noon. Registration and information: 416-978-0951, family.care@utoronto.ca.

### Father's Group.

FRIDAY, APRIL 6

A chance to meet other fathers at U of T to talk, discuss issues, find out about resources and share insights. Koffler Student Services Centre. Noon.

Registration and information: 416-978-0951, family.care@utoronto.ca.

### Scottish Gaelic Language & Song.

SATURDAY, APRIL 7

A day of Scottish Gaelic language and song; language classes and song workshop. Alumni Hall, St. Michael's College. 9 a.m. to 4 p.m. Tickets \$30, free to U of T students and native speakers, \$15 non-U of T students. Information: 905-844-4908.



## DEADLINES

Please note that information for Events listings must be received in writing at The Bulletin offices, 21 King's College Circle, by the following times:

Issue of April 9, for events taking place April 9 to April 23: MONDAY, MARCH 26.

For information regarding the Events section, please call Ailsa Ferguson at 416-978-6981.

## UNIVERSITY OF TORONTO

# THE BULLETIN

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# COMMITTEES

The Bulletin regularly publishes the terms of reference and membership of committees.  
The deadline for submissions is Monday, two weeks prior to publication.

## ADVISORY

VICE-PROVOST (FACULTY)  
Provost Adel Sedra has established a committee to advise him on the replacement of Vice-Provost Paul Gooch, appointed president of Victoria University effective July 1. Members are: Professors Rona Abramovitch, provost's adviser on proactive faculty recruitment; Carl Amrhein, dean, Faculty of Arts & Science; David Cook, principal, Victoria College and former vice-provost (staff functions); Ron Daniels, dean, Faculty of Law; Michael Finlayson, vice-president (administration and human resources); Glen Jones, chair, theory and policy studies in education, OISE/UT; Angela Hildyard, principal, Woodsworth College; Michael Marrus, dean, School of Graduate Studies; Robert McNutt, principal, U of T at Mississauga; Dorothy Pringle, former dean, Faculty of Nursing; Paul Thompson, principal and dean, U of T at Scarborough; Carolyn Tuohy, deputy provost; and Cecil Yip, vice-dean (research), Faculty of Medicine.

The committee would welcome suggestions from interested members of the

university community as soon as possible. These may be made to any member of the committee or sent directly to the provost, Room 225, 27 King's College Circle.

## REVIEW

ISO TRACE LABORATORY  
Professor Heather Munroe-Blum, vice-president (research and international relations) has established a task force to review the IsoTrace Laboratory's contribution to the academic mission of the university and its current and potential sources of funding.

### Mandate

1. To review and assess the contribution, both past and present, of the IsoTrace Laboratory to teaching and research at the University of Toronto and identify its location within the university's current academic priorities;  
2. To review and assess both the internal and external usage of the laboratory including market conditions and other factors affecting the provision of analytic services;  
3. To review and assess the current financial status of the laboratory, the

viability of its financial plans and the prospects for external financial support;  
4. To make recommendations to the vice-president (research and international relations) regarding the future of the laboratory including the advisability of submitting an application to the Canada Foundation for Innovation.

### Membership

Professor Don Dewees, economics and former vice-dean, Faculty of Arts & Science (chair); Professors Verna Higgins, botany; Ulrich Krull, AstraZeneca Chair in Biotechnology, U of T at Mississauga; Douglas Perovic, chair, metallurgy and materials science; and Pekka Sinervo, vice-dean (research infrastructure and graduate education), Faculty of Arts & Science; and Peter Munsche, assistant vice-president (technology transfer) (secretary).

The task force has been asked to present its findings and recommendations by the beginning of May. The board of directors of the IsoTrace Laboratory and other interested parties are invited to submit information, comments and recommendations to the task force by April 6.



# BEYOND TECHNIQUE

*To be leaders in the 21st century engineers must be more than technically competent*

By KIM VICENTE

*"The world henceforth will be run by synthesizers, people able to put together the right information at the right time, think critically about it, and make important choices wisely."*

E.O. Wilson, 1998

THE ENGINEERING PROFESSION IS experiencing drastic changes. The demands imposed by society are quite different and more stringent than ever. Technology is changing at a dizzying pace, innovations have led to increasing complexity, companies now do business around the world, concern for sustainable development is at a peak and our ability to make sense of devices that are supposed to simplify our lives is falling sorely behind. Consequently, universities need to graduate engineers with a different set of talents. In seeking to shape the future, it is sometimes useful to look to the past for inspiration.

John Galbraith was the first engineering professor at the University of Toronto (1878) and the first dean of the Faculty of Applied Science and Engineering (1906). He laid the foundation for engineering education in Canada. I recently read Richard White's history of engineering at U of T (*Skule Story*) and Catherine Moriarty's biography of Galbraith (*John Galbraith: Engineer and Educator*) and found that Galbraith's vision of engineering education has stood the test of time surprisingly well.

Galbraith believed that engineering education should be based on an awareness of social problems, go beyond technical excellence and emphasize communication and critical thinking skills. In 1909 he stated: "The engineer never can hope to be in the position of not requiring to study non-engineering things. The training to be given in the engineering schools should deal more with subjects which are not engineering than those which are, the reason being that the time for such training is short whereas that to be devoted to engineering is long. Above all, the curriculum should be educative, the student should be training in clear thinking and in clear expression. When he graduates he should have acquired a sufficient knowledge of his geography to have some idea of where he is in the world in general and in the engineering world in particular." Despite the fact that it is almost 100 years old, Galbraith's vision is just as valid today. We must take strides to achieve this vision.

DESPITE TREMENDOUS TECHNOLOGICAL PROGRESS, SOCIETY IS facing a number of pressing problems that are in dire need of solutions. These problems come from all sectors including energy, health care, education, transportation, water supply and sustainable economic development. Galbraith believed that social problems of this type fell squarely under the purview of the engineering profession: "Who should be better qualified for the task of stimulating and guiding this public opinion than the engineer?"

However, the world of the early 21st century is markedly different from that of the early 20th century. Social problems are more complex in nature, increasing the burden on the engineering profession. Many believe that engineers are not up to the task. For example, Maurice Strong — a Canadian who has held high-level positions in the United Nations — has questioned whether the engineering profession is capable of leading society in solving some of its most pressing problems: "We can use our human technological ingenuity to good advantage; indeed, we must. But we also need wisdom beyond the purview of the engineering schools. Technology can assist or hinder political solutions, but it is politics and its motivating values and priorities that are the keys to how we use technology to shape the human future."

This perception is widespread and has affected students' career choices. According to a 1999 report from the U.S. National Research Council, bright students do not see careers in science and engineering as a way to reach positions of

leadership in society. Both society and the engineering profession suffer as a result because those in leadership positions have little knowledge of science and engineering.

Thus the engineering profession is at a critical crossroads. One path is to change the nature of engineering education to meet the needs of society's most pressing problems. This option corresponds to Galbraith's goal of engineers playing a strong leadership role in society. Another path is to sit back and continue with the status quo. This option corresponds to Strong's view, where people trained in other disciplines, such as business and law, lead the way in making decisions about how technology will be used to shape the future of humankind. I believe that it is possible — indeed, necessary — to achieve Galbraith's vision.

Many of the problems currently facing society have a strong technological component but they cannot be solved by technology alone. These problems also involve human, organizational and environmental considerations. As Galbraith recognized, to better meet these needs, the engineering profession must become broader in scope: "A properly educated graduate ought to be able by his own reading to adapt himself to any situation wherein he may be placed. A broad education is the best preparation for specialization in ... life."

## ENGINEERS MUST LEARN TO TOLERATE AMBIGUITY — ANSWERS AREN'T ALWAYS FOUND IN THE BACK OF TEXTBOOKS

The need for breadth is stronger than it has ever been. To use the words of Tom Brzustowski, president of Canada's Natural Sciences and Engineering Research Council, engineering curricula need to go "beyond technical excellence" by providing students with a much broader education than they currently receive. President Robert Birgeneau recently expressed a compatible view, stating that "leaders ... must know where they come from (history), who they are (psychology) and what impact they have (economics and social science)." This view is shared by Provost Adel Sedra, who stated that we need engineering curricula "that include significant

exposure to humanities and social sciences".

Currently, undergraduate engineering curricula provide very little opportunity to take humanities and social sciences courses. A more extensive exposure to such courses could provide engineering students with a better understanding of the social context in which their future technical designs would reside. They could appreciate that attention to human factors and to the environment would become an integral part of "good design," not some isolated, specialist considerations that you worry about at the end of a project — if you have any time and money left over.

Broadening the curriculum could also bring engineering students into contact with arts and science students and expose them to other ways of thinking. The world is not made up entirely of people who think like engineers, a fact that some students only encounter after they graduate. Humanities and social sciences courses could also provide engineers with a more stringent structure in which to hone their writing and communication skills. Such skills are essential to success in the profession but are not very well fostered by specialized remedial English courses just for engineers. Finally, a broader education could also enhance engineering undergraduates' tolerance for ambiguity. Students need to realize that, in

engineering practice, decisions do not just have one correct answer that can be found by looking in the back of a textbook.

The importance of these insights is well captured by Professor Allan Bromley, dean of engineering at Yale University: "I have become increasingly aware that in the average engineering project, the first 10 per cent of the decisions made effectively commit between 80 and 90 per cent of all the resources that subsequently flow into the project. Unfortunately, most engineers are ill-equipped to participate in these important initial decisions because they are not purely technical decisions. Although they have important technical dimensions, they also involve economics, ethics, politics, appreciation of international affairs and general management considerations. Our current engineering curricula tend to focus on preparing engineers to handle the other 90 per cent, the nut-and-bolt decisions that follow after the first 10 per cent have been made. We need more engineers who can tackle the entire range of decisions."

OF COURSE, A PRICE WOULD HAVE TO BE PAID TO ADOPT THE changes I am advocating. A few technical courses would probably have to be dropped from current curricula. Galbraith would argue that such a trade-off is more than justified, and I would agree. Engineers in the 21st century need to go beyond technical excellence; they must be exposed to history so that they can learn from the past; they must be exposed to human sciences so that they have a better understanding of the relationship between people and technology; and they need to be exposed to social sciences so that they know what impact they can, and should, have on society. This new breed of technically competent, yet socially aware, engineers could lead society in helping solve some of its most pressing problems.

Engineers of this type would be invaluable because they could factor technical knowledge into important social decisions, something that decision makers trained in other disciplines are not prepared to do because they do not possess the requisite education. The importance of this technical knowledge was eloquently captured by the Nobel laureate physicist, Richard Feynman, in the context of the fatal 1986 decision to launch the Challenger space shuttle: "for a successful technology, reality must take precedence over public relations, for Nature cannot be fooled."

*Professor Kim Vicente directs the Cognitive Engineering Laboratory in the department of mechanical and industrial engineering. The views expressed here are his own and not necessarily those of his colleagues.*